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(57) Abstract: The present invention relates to co-crystals of cetuximab Fab in a complex with extracellular domain of EGFR, and structure coordinates obtained from such crystal. Such coordinates are useful for identifying mimetics that bind to the extracellular domain of EGFR. Such mimetics may for example inhibit binding of ligand to EGFR, inhibit activation of EGFR, and/or reduce proliferation of tumor cells.

CRYSTAL OF EGFR EXTRACELLULAR DOMAIN AND CETUXIMAB FAB FRAGMENT AND USES THEREOF

Field of the Invention

[0001] The present invention relates to co-crystals of cetuximab Fab in a complex with extracellular domain of EGFR, and structure coordinates obtained from such crystal. Such coordinates are useful for identifying mimetics, preferably EGFR antagonists, that bind to the extracellular domain of EGFR. Such mimetics may for example inhibit binding of ligand to EGFR, inhibit activation of EGFR, and/or reduce proliferation of tumor cells.

Background of the Invention

[0002] Although normal cells proliferate by the highly controlled activation of growth factor receptor tyrosine kinases ("RTKs") by their respective ligands, cancer cells also proliferate by the activation of growth factor receptors, but lose the careful control of normal proliferation. The loss of control may be caused by numerous factors, such as the overexpression of growth factors and/or receptors, and autonomous activation of biochemical pathways regulated by growth factors. Some examples of RTKs involved in tumorigenesis are the receptors for epidermal growth factor receptor (EGFR) (also known as human EGF receptor-1 (HER1)), platelet-derived growth factor (PDGFR), insulin-like growth factor (IGFR), nerve growth factor (NGFR), and fibroblast growth factor (FGF). Binding of growth factors to these cell surface receptors induces receptor activation, which initiates and modifies signal transduction pathways and leads to cell proliferation and differentiation.

[0003] Generally, RTKs have an extracellular region, a transmembrane hydrophobic region, and an intracellular region bearing a kinase domain. The first step in the activation of an RTK is ligand-induced dimerization leading to exposure of phosphorylation sites, activation of the intracellular kinase domain and recruitment of down-stream signaling molecules. The most commonly observed mode of RTK dimerization involves the "crosslinking" of two receptors having exposed dimerization interfaces by binding of a bivalent ligand. For EGFR, structural data published in recent years have led to the proposal of quite a different mechanism. In the absence of ligand, a distinct configuration of the receptor monomer occludes the dimerization interface of the receptor by burying it in an intramolecular "tether." Ligand binding induces a

conformational change in EGFR that exposes this dimerization site, promoting dimerization and receptor activation.

[0004] EGFR is a 170 kD membrane-spanning glycoprotein with an extracellular ligand binding domain, a transmembrane region and a cytoplasmic protein tyrosine kinase domain. Examples of ligands that stimulate EGFR include epidermal growth factor (EGF), transforming growth factor- α (TGF- α), heparin-binding growth factor (HBGF), β -cellulin, and Cripto-1. Binding of specific ligands results in EGFR autophosphorylation, activation of the receptor's cytoplasmic tyrosine kinase domain and initiation of multiple signal transduction pathways that regulate tumor growth and survival.

[0005] Growth factors that activate EGFR are also thought to play a role in tumor angiogenesis. Angiogenesis, which refers to the formation of capillaries from pre-existing vessels in the embryo and adult organism, is known to be a key element in tumor growth, survival and metastasis. It has been reported that EGFR mediated stimulation of tumor cells leads to increased expression of the angiogenic factors vascular endothelial growth factor (VEGF), interleukin-8 (IL-8), and basic fibroblast growth factor (bFGF), which can lead to activation of tumor-associated vascular endothelial cells. Stimulation of tumor associated vascular endothelial cells may also occur through activation of their own EGF receptors, by tumor produced growth factors such as TGF-α and EGF.

[0006] It has been reported that many human tumors express or overexpress EGFR. Expression of EGFR is correlated with poor prognosis, decreased survival, and/or increased metastasis. EGFR, because of this involvement in tumorigenesis, has been specifically targeted for anticancer therapies. These therapies have predominantly included either a monoclonal antibody that blocks binding of ligand to the extracellular domain of the receptor or a synthetic tyrosine kinase inhibitor that acts directly on the intracellular region to prevent signal transduction.

[0007] Cetuximab MAb (ERBITUX®) is a recombinant, human/mouse chimeric, monoclonal antibody composed of the Fv regions of a murine anti-EGFR antibody with human IgG1 heavy and kappa light chain constant regions and has an approximate molecular weight of 152 kDa. Cetuximab binds specifically to the extracellular domain of the human EGFR, and is an EGFR antagonist, which blocks ligand binding to EGFR, prevents receptor activation, and

inhibits growth of tumor cells that express EGFR. Cetuximab has been approved for use in combination with or without irinotecan in the treatment of patients with epidermal growth factor receptor-expressing, metastatic colorectal cancer who are refractory or can not tolerate irinotecan-based chemotherapy. Cetuximab has been shown to be effective for treatment of psoriasis.

[0008] The crystal structure of an EGF-EGFR extracellular domain complex, wherein the receptor domain exists in dimeric form, has been provided Ogiso, H. et al., 2002, Cell 110, 775-787. The structure of an EGF-EGFR extracellular domain complex obtained by crystallization at low, non-physiological pH, wherein the receptor exists in monomeric form has also been provided Ferguson, K.M. et al., 2003, Mol Cell 11, 507-517. The structure of a transforming growth factor alpha (TGF-α)-EGFR extracellular domain complex in dimeric form has also been determined (Garrett, T.P. et al., 2002, Cell 110, 763-773).

[0009] However, the crystal structure of EGFR with an antagonist, particularly cetuximab Fab, has not been previously determined. The invention disclosed herein provides for the first time crystals and atomic coordinates of a complex of an EGFR extracellular domain and cetuximab Fab. Accordingly, the present invention provides methods for identifying potential mimetics by screening against at least a subset of the coordinates obtained from such a crystal. Mimetics may be assayed for biological activities to obtain EGFR antagonists useful for treatment of EGFR dependent conditions or diseases. EGFR antagonists interact with the receptor to inhibit EGFR tyrosine kinase activity, without limitation, by blocking ligand binding, inhibiting receptor dimerization, ultimately inhibiting receptor substrate phosphorylation, gene activation, and cellular proliferation. Preferably, the antagonists have substantially similar or improved effectiveness as compared to cetuximab. The antagonists are used for treatment of conditions associated with EGFR expression. Such diseases include tumors that express, or overexpress EGFR and which may be stimulated by a ligand of EGFR. Also included are hyperproliferative diseases stimulated by a ligand of EGFR.

Summary of the Invention

[0010] In one aspect, the present invention provides a crystal of a receptor-antibody complex comprising a receptor-antibody complex of an epidermal growth factor receptor (EGFR) extracellular domain and cetuximab Fab, wherein the crystal has a resolution

determined by X-ray crystallography of better than about 5.0 Angstroms. Preferably, the crystal has a resolution determined by X-ray crystallography of better than about 4.0 Angstroms, more preferably better than about 3.0 Angstroms. Preferably the crystal belongs to space group P2₁ and has unit cell dimensions a = 77.8 Å, b = 70.9 Å, c = 147.1 Å, and $\beta = 102.5^{\circ}$. Preferably, the crystal has atomic coordinates provided in Table 2.

- [0011] In another aspect, the present invention provides a method for preparing a crystal of a complex of an epidermal growth factor receptor (EGFR) extracellular domain and cetuximab Fab comprising preparing a solution containing the extracellular domain of EGFR and cetuximab Fab fragment, and growing the crystal. Preferably the pH of the solution is about 6.0 to about 8.0.
- [0012] In another aspect, the present invention provides a method of identifying a mimetic of cetuximab comprising comparing a three-dimensional structure of the mimetic with a three-dimensional structure determined for the above crystal complex. Preferably, the three dimensional structure of the mimetic is compared with at least a subset of the coordinates provided in Table 2.
- [0013] In one embodiment, identifying a mimetic is carried out by comparing the three-dimensional structure of the mimetic against the coordinates of at least one EGFR amino acid bound by cetuximab Fab. Such EGFR amino acid is selected from the group consisting of Gln 384, Gln 408, Ser 418, Ser 440, Lys 465, Ser 468, and Asn 469. In one embodiment, the locations of atoms of the mimetic that contact EGFR correspond to atoms of cetuximab that contact EGFR. In yet another embodiment, screening is carried out by comparing a three dimensional structure of a mimetic with the atomic coordinates of a region of EGFR selected from the group consisting of about amino acid residue 350 to about amino acid residue 354, about amino acid residue 420, about amino acid residue 435 to about amino acid residue 475 and combinations thereof.
- [0014] The mimetic may be a small molecule, a peptide, or a polypeptide, preferably an antibody or a fragment thereof.

[0015] In another aspect of the invention, a mimetic that is an antibody or a fragment thereof is identified by introducing one or more substitutions in at least a single CDR region of cetuximab and/or at non-CDR amino acids of the antibody that interact with the CDR and affect its conformation. In one embodiment, at most a single substitution is made in each CDR. In another embodiment, substitution are made solely in CDR3 or at amino acids that affect the conformation of CDR3.

- [0016] In another aspect, the present invention provides the above methods carried out with use of a computer.
- [0017] The invention further provides a method for synthesizing the mimetic and assaying its binding or physiological activity to select EGFR antagonists useful for inhibiting EGFR function and treating EGFR-associated diseases or conditions. In an aspect of the invention, a mimetic is provided that inhibits tyrosine kinase activity of the receptor. In another aspect of the invention, the mimetic inhibits dimerization of EGFR expressed by a cell. Preferably, the mimetic blocks binding of EGF to EGFR. Mimetics of the invention bind to EGFR and inhibit EGFR functional activity, preferably to a similar or greater extent than cetuximab.
- [0018] In another aspect, the present invention provides a computer-assisted method for identifying a mimetic of cetuximab comprising a processor, a data storage system, an input device, and an output device, comprising: inputting into the programmed computer through said input device data comprising the three-dimensional coordinates of at least a subset of the atoms of EGFR as set out in Table 2; providing a database of chemical and peptide structures stored in said computer data storage system; selecting from said database, using computer methods, structures having a portion that is structurally similar to said criteria data set; and outputting to said output device the selected chemical structures having a portion similar to said criteria data set.
- [0019] In another aspect, the present invention provides a machine-readable medium having stored thereon a plurality of executable instructions to perform a method to identify a mimetic of cetuximab using a crystal of a receptor-antibody complex comprising a receptor-antibody complex of an epidermal growth factor receptor (EGFR) extracellular domain and cetuximab Fab, the method comprising: comparing a three-dimensional structure of a mimetic

with a three dimensional structure an epidermal growth factor receptor (EGFR) extracellular domain and cetuximab Fab having an X-ray crystallography resolution of better than about 5.0 Angstroms.

- [0020] Preferably the EGFR coordinates comprise at least a subset of the atomic coordinates of Table 2. In one embodiment, identifying a mimetic comprises comparing the three-dimensional structure of a mimetic with a three-dimensional structure of at least one EGFR amino acid bound by cetuximab Fab. In another embodiment identifying a mimetic comprises comparing a three dimensional structure of a mimetic with the atomic coordinates of a region of EGFR selected from the group consisting of about amino acid residue 350 to about amino acid residue 354, about amino acid residue 380 to about amino acid residue 385, about amino acid residue 405 to about amino acid residue 420, about amino acid residue 435 to about amino acid residue 475 and combinations thereof.
- [0021] In another aspect, the present invention provides a machine-readable medium having stored thereon a plurality of executable instructions to perform a method for identifying a mimetic of cetuximab, the method comprising: introducing *in silico* substitutions in at least a single CDR region of cetuximab to obtain a pool of variants; and using a computer and at least a subset of the EGFR coordinates provided in Table 2 to select a variant with improved EGFR binding characteristics.
- [0022] In another aspect, the present invention provides a cetuximab mimetic identified by any of the above methods.
- [0023] In another aspect, the present invention provides a method of inhibiting EGFR comprising administering the identified mimetic.
- [0024] In another aspect, the present invention provides a method of treating a disease or condition associated with EGFR expression comprising administering the identified mimetic. In one non-limiting embodiment, the present invention provides a method of inhibiting growth of a tumor cell that expresses EGFR comprising administering the above identified mimetics. In another embodiment, the present invention provides a method of treating a hyperproliferative diseases stimulated by a ligand of EGFR.

[0025] In another aspect, the present invention provides a method of treating psoriasis comprising administering the above identified mimetics.

Brief Description of the Figures

[0026] Figure 1 provides pictures of the crystals of the present invention. In this figure crystals on the left (1a) are representative of those used to collect the data and solve the structure. On the right (1b) are examples of crystals grown from the same condition except without CdCl₂, which are substantially identical to that obtained in the presence of CdCl₂.

- [0027] Figure 2 provides various characteristics of the crystals of the present invention.
- [0028] Figure 3 provides crystal structures of EGFR and cetuximab Fab complex.
- [0029] Figure 4 provides graphs depicting affinity of cetuximab Fab, and affinity of EGFR ligands for EGFR, and also provides a competition assay. Additional details are provided in the example below having the heading "BIAcore binding studies."

Detailed Description of the Invention

[0030] The present invention provides a co-crystal of EGFR extracellular domain and cetuximab Fab fragment with a resolution that is preferably greater than about 5Å, more preferably greater than about 4Å and most preferably greater than about 3Å. The crystal preferably has a space group P2₁ and unit cell dimensions of a = 77.8 Å, b = 70.9 Å, c = 147.1 Å; and $\beta = 102.5^{\circ}$.

[0031] To obtain the crystal for which structural coordinates are shown Table 2, the entire extracellular region (*i.e.*, amino acids 1-618 of mature EGFR, including domains I, II, III and IV) is used, plus a C-terminal hexa-histidine tag (Ferguson, K.M. et al., 2000, Embo J 19, 4632-4643; Ferguson, K.M. et al., 2003, Mol Cell 11, 507-517). (See GenBank Accession No. 1NQLA). Cetuximab Fab contains the Fab fragment of Cetuximab, *i.e.*, the heavy and light chain variable region sequences of murine antibody M225 (U.S. App. Ser. No. 2004/0006212, incorporated herein by reference) with human IgG1 C_H1 heavy and kappa light chain constant domains. (Cetuximab includes all three IgG1 heavy chain constant domains.) The CDR regions of the heavy chain of Cetuximab have the following sequences: a CDR1 region with a sequence of N Y G V H, a CDR2 region with a sequence of V I W S G G N T D Y N T P F T S, and a CDR3 region with a sequence of A L T Y Y D Y E F A Y. The CDR regions of the light chain

of Cetuximab have the following sequences: a CDR1 region with a sequence of R A S Q S I G T N I H, a CDR2 region with a sequence of Y A S E S I S, and a CDR3 region with a sequence of Q Q N N N W P T T.

[0032] The sequences of the proteins in the crystal, *i.e.*, cetuximab Fab and the extracellular domain of EGFR, are also reported with the atomic coordinates of Table 2, except for amino acid positions at which the electron density map was insufficient to place all atoms of the actual amino acid side chain. At those positions, other amino acid side chains are designated.

[0033] Crystallization of the EGFR:cetuximab Fab complex may be carried out from a solution of cetuximab Fab and EGFR with various techniques, such as microbatch, hanging drop, sitting drop, sandwich drop, seeding and dialysis. The solution is prepared by combining EGFR extracellular domain with cetuximab Fab in a suitable buffer. A standard buffering agent such as Hepes, Tris, MES and acetate may be used. The buffer system may also be manipulated by addition of a salt such as sodium chloride, ammonium sulfate, sodium/potassium phosphate, ammonium acetate among others. Imidazole may also be used as a buffer. The concentration of the salt is preferably about 10mM to about 500mM, more preferably about 25 mM to about 100mM, and most preferably about 50mM. The pH of the buffer is preferably about 6 to about 8, more preferably about 7 to about 8. The concentration of the protein in the solution is preferably that of super-saturation to allow precipitation. The solution may optionally contain a protein stabilizing agent.

[0034] In one embodiment, the crystal is precipitated by contacting the solution with a reservoir that reduces the solubility of the proteins due to presence of precipitants, i.e., reagents that induce precipitation. Such contacting may be carried out through vapor diffusion. Examples of precipitants include ammonium sulfate, ethanol, 3-ethyl-2,4 pentanediol, and glycols, particularly polyethanol glycol (PEG). The PEG utilized preferably has a molecular weight of about 400 to about 20,000, more preferably about 3000 Da, with a concentration of about 10 % to about 20 %, more preferably about 15 % (w/v). Some precipitants may act by making the buffer pH unfavorable for protein solubility.

[0035] The temperature during crystallization is preferably of about 0°C to about 30°C, more preferably about 20°C to about 30°C, and most preferably about 25°C. In addition to

generation of structure, the crystallization technique of the invention may also be used to increase purity of proteins.

[0036] Precipitation may also be carried out in the presence of a heavy metal such as cadmium to further improve analysis of the crystal after precipitation.

[0037] In one embodiment illustrated in the example, about 0.5 μl (or microliter) protein at 11 mg/ml in 10 mM Hepes, 50 mM NaCl, pH 7.5 is contacted with 0.5 μl (or microliter) reservoir solution of about 15 % PEG 3350, about 250 mM ammonium sulfate, about 10 mM cadmium chloride, about 100 mM imidazole and about pH 7.5. Essentially the same crystals are obtained without use of cadmium chloride. Crystals have also been grown at 15 % PEG 3450, 100 mM CaCl₂, 50 mM Sodium acetate, pH 5.0 and 15 % PEG 3450, 100 mM ammonium acetate, 50 mM sodium citrate, pH 5.0.

[0038] The atomic coordinates of the crystal of the present invention are disclosed in Table 2. The coordinates provide a three dimensional structure of the EGFR extracellular domain:cetuximab Fab complex of the crystal. The cetuximab Fab includes the portion of cetuximab which binds to the extracellular region of EGFR, and can be used to model the interaction of cetuximab and EGFR. Accordingly, the crystal and the deduced atomic coordinates allows for studying the binding interaction of cetuximab with EGFR and EGFR inhibition. The three dimensional structure further allows for identifying potential mimetics by screening potential mimetics against at least part of the structure (a subset of atoms provided in Table 2).

[0039] The three dimensional structure of EGFR:cetuximab Fab complex as defined by atomic coordinates is obtained from the X-ray diffraction pattern of the crystal and the electron density map derived therefrom. One method for determining the three dimensional structure is by molecular replacement which involves use of the structure of a closely related molecule or receptor ligand complex. An alternative method employs heavy atom derivatives.

[0040] One of skill in the art will also appreciate that the atomic coordinates provided are not precise, but are obtained from electron density measured for the crystal. Initial coordinates are determined by matching the protein backbone and side chains to the electron density map. The coordinates are refined by minimizing the overall energy of the protein (e.g.,

by adjusting bond lengths and angles), in view of the determined electron density. In some locations in the atomic structure, atoms of amino acid side chains may not be fully resolved due to, for example, solvent interactions and the like. Accordingly, the side chain that is modeled may differ from the actual side chain at that amino acid position. For the atomic coordinates set forth in Table 2, Arg 18 of the light chain and Gln 1 of the heavy chain of cetuximab Fab are modeled as Alanine. The present invention encompasses structures having root mean square deviations of backbone atoms of not more than about 1.5 Å, or more preferably not more than about 1.0 Å, or most preferably, not more than about 0.5 Å for residues of EGFR extracellular domain or cetuximab Fab that are used in identifying mimetics. The present invention encompasses variations within acceptable standards of error in the art for a crystal with the resolution disclosed herein.

[0041] It will also be appreciated that the origin of the atomic coordinates is arbitrarily defined. Accordingly, the same atomic structure can be represented by sets of coordinates that are numerically different, but that identify the same atomic positions. The present invention encompasses such alternative coordinate sets.

[0042] Identification of mimetics of cetuximab may be carried out with only a subset of the coordinates provided, such as those of amino acid residues of EGFR or cetuximab Fab that are associated in the complex.

[0043] Potential mimetics are examined against EGFR, particularly one or more of the above residues, through the use of computer modeling using a docking program. Such computer modeling allows for obtaining a positive initial indication of binding before synthesis and testing of the compound. If the testing shows sufficient interaction, then the compound may be synthesized and tested as a potential candidate. There is no limitation to the source of potential mimetics. For example, potential mimetics include structural databases of small molecules and other ligands represented *in silico*, as well as commercially available libraries of small molecules that can be similarly modeled. Potential mimetics further include peptides and macromolecules such as proteins, polypeptides, preferably antibodies or antibody fragments, synthetic polymer backbones having amino acid-like functional groups, and the like. Such potential mimetics may have defined structure, or be modeled on the basis of their similarity to other macromolecules of known structure. Iterative methods may be employed to vary one or more of the functional

groups to improve the fit of the potential mimetic with EGFR. Those substances identified as mimetics, if not otherwise available to be tested for EGFR antagonist activity, may be synthesized.

[0044] In preferred embodiments, the locations of at least some atoms of cetuximab mimetics that contact EGFR correspond to the locations of atoms of cetuximab that contact EGFR. The correspondence is preferably within about 2.0 Å, more preferably within about 1.0 Å, and most preferably with about 0.5 Å. The atoms usually interact with EGFR in a manner similar to the corresponding atoms of cetuximab Fab (*i.e.*, polar, basic, acidic, hydrophobic). The mimetics may contain various numbers of such corresponding atoms, and binding of the mimetic to EGFR may be completely or only partially dependent on such corresponding interactions. In certain embodiments, such atomic interactions with EGFR may be supplemented by interactions of other atoms of the mimetic that also interact with EGFR. The binding ability of the mimetics can be evaluated by various computer programs as disclosed herein.

[0045] Docking may be accomplished by using software such as Quanta and Sybyl (manual model building software), followed by energy minimization and molecular dynamics with standard molecular mechanics force fields, such as CHARMM and AMBER. Specialized programs for docking include GRAM, GRID, Flexx, Glide, GOLD, MCSS, DOCK or AUTODOCK (See e.g. USP 5,856,116 and 6,087,478; Jorgensen W.L., 2004, Science 303, 1813-1818). Such procedure includes computer fitting of potential antagonists to EGFR to determine how the three dimensional structure of EGFR and the chemical properties of each amino acid interfere with EGFR activation, and to estimate attraction, repulsion and steric hindrance of the binding. Generally, tighter fits are preferred in that they are more likely to be effective when administered *in vivo*, and would be more selective for EGFR, minimizing binding to other receptors. Many of these programs also consider adsorption, distribution, metabolic and excretion characteristics of the molecules.

[0046] The docking program may be connected to a structure generator (such as SYNOPSIS) to perform *de novo* screening. An alternative to de novo screening, is creation of structures based on the binding site such as with programs including LUDI, SPROUT and

BOMB, which allow a user to put a substituent in a binding site and then build up the substituent (Jorgensen W.L., 2004).

[0047] One of skill in the art would appreciate that the above screening methods may also be carried out manually, by building an actual three dimensional model based on the coordinates, and then determining desirable antagonists based on that model visually.

[0048] Of particular interest for designing mimetics are those amino acids that overlap with the binding site of EGR or TGF- α to EGFR. Such binding may interfere with the ligand-induced dimerization of the receptor or inhibit binding of the ligand to EGFR altogether.

[0049] Domains I and III of EGFR are responsible for binding of EGF to the receptor, and are of interest in designing antagonists. Of the amino acids of EGFR, some are involved in direct hydrogen bonding with cetuximab Fab. These amino acids include Ser 468, Asn 469, Arg 353, Gln 384, Gln 408, Ser 418, Ser 440 and/or Lys 465. Ser 468 and Asn 469 are involved in main-chain hydrogen bonds, *i.e.*, the nature of the side chain is not directly relevant. Antagonists may be designed to bind to a few, most or none of these amino acids. Other amino acids of EGFR are in contact to some lesser degree with cetuximab Fab. These amino acids include: Pro 349, Arg 353, Leu 382, His 409, Phe 412, Val 417, Ser 418, Ile 438, Gly 441, Lys 443, Ile 466, Ile 467, Gln 471 and Asn 473. Of the nine amino acids between 465 and 473, eight of them are in some contact with cetuximab Fab. This region of EGFR is also ideal for screening of antagonists, particularly since residues 467 and 468 are in contact with both the heavy and light chains of cetuximab.

[0050] Cetuximab Fab does not bind to amino acids at positions 325, 346, 348, 350, 354-357 and 411, despite these amino acids being involved in EGF/TGF-α binding. Screening may be carried out against these positions, or only for the positions bound by cetuximab Fab, or both. If screening is carried out based on the binding of cetuximab Fab to EGFR, such screening may be carried out in regions of amino acids of about 350 to about 354, amino acids of about 380 to about 385, amino acids of about 405 to about 420, amino acids of about 435 to about 475 and combinations thereof. One of skill in the art would appreciate that screening may simply be carried out against domains I and III of EGFR based on the crystal structure provided, and general area of the binding pocket, without focus on any particular amino acids bound by cetuximab Fab and/or ligands.

[0051] The mimetics, both peptides and small organic molecules, preferably antibody and antibody fragments, bind to EGFR and mimic effects of cetuximab both *in vivo* and *in vitro*. In addition to peptides and small organic molecules, the mimetic may be a sugar. The mimetic may also be a combination of peptides/small molecules/sugars, such as a peptide having a synthetic backbone. The mimetic may be designed based on criteria such as affinity for EGFR, desirable efficacy and/or desirable selectivity. These mimetics have at least a single physiological or binding activity of cetuximab, which activity can be tested by assays provided further below.

- [0052] As used herein, "mimetics" include cetuximab mimetics with modifications that retain specificity for EGFR. Such modifications include, but are not limited to, conjugation to an effector molecule such as a chemotherapeutic agent (e.g., cisplatin, taxol, doxorubicin) or cytotoxin (e.g., a protein, or a non-protein organic chemotherapeutic agent). The mimetics can be modified by conjugation to detectable reporter moieties. Also included are mimetics with alterations that affect non-binding characteristics such as half-life (e.g., pegylation).
- [0053] Proteins and non-protein agents may be conjugated to the mimetics by methods that are known in the art. Conjugation methods include direct linkage, linkage via covalently attached linkers, and specific binding pair members (*e.g.*, avidin-biotin). Such methods include, for example, that described by Greenfield et al., Cancer Research 50, 6600-6607 (1990) for the conjugation of doxorubicin and those described by Arnon et al., Adv. Exp. Med. Biol. 303, 79-90 (1991) and by Kiseleva et al., Mol. Biol. (USSR)25, 508-514 (1991) for the conjugation of platinum compounds.
- [0054] In one embodiment, a library of small organic molecules is used to screen for mimetics *in silico*. In another embodiment, cetuximab is used as a starting candidate, and varied to generate a cetuximab variant with desirable properties. Such variant of cetuximab may be a scFv, a Fab, diabody, or IgG. For example, conservative amino acid substitutions may be made at one or more of residues of cetuximab Fab which bind EGFR: light chain (LC) residues Asn 91, Trp 94; heavy chain (HC) residues Gly 54, Tyr 102, Trp 52, Asp 103.
- [0055] A conservative amino acid substitution is defined as a change in the amino acid composition by way of changing one or two amino acids of a peptide, polypeptide or protein, or fragment thereof. The substitution is of amino acids with generally similar properties (e.g.,

acidic, basic, aromatic, size, positively or negatively charged, polarity, non-polarity) such that the substitutions do not substantially alter peptide, polypeptide or protein characteristics (e.g., charge, isoelectric point, affinity, avidity, conformation, solubility) or activity. Typical substitutions that may be performed for such conservative amino acid substitution may be among the groups of amino acids as follows:

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glycine (G), alanine (A), valine (V), leucine (L) and isoleucine (I); aspartic acid (D) and glutamic acid (E); alanine (A), serine (S) and threonine (T); histidine (H), lysine (K) and arginine (R): asparagine (N) and glutamine (Q); phenylalanine (F), tyrosine (Y) and tryptophan (W).
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[0056] If the binding is not as tight in regard to one or more of the residues, less conservative substitutions may be made at those residues to optimize the binding. For example, an amino acid with a hydrophilic group may be substituted for one with a hydrophobic group.

[0057] In one embodiment, a mixture of all or some amino acids is introduced to synthesize variants of cetuximab randomly at specified positions *in silico*: Tyr 102 (HC), Trp 52 (HC), and Asp 103 (HC) of cetuximab. Only these amino acid residues are involved in side chain hydrogen bonds, and thus are candidates for specific mutations aimed at modifying direct interactions. Such variation, where all 20 amino acids are used, would result in about 20³ variants which can then be screened. If only conservative substitutions are made, the variation would be much less, about 3³. Conservative and non-conservative substitutions at other positions in the CDRs of cetuximab that do not bind to EGFR directly should also be considered. For example, direct interactions between contact residues (*e.g.*, main chain - main chain, main chain - side chain, side chain - side chain contacts) can be modified by introducing changes at amino acid positions that affect the position of cetuximab side chain and main chain atoms involved in direct interactions with EGFR. In one embodiment, at most a single substitution is made in each CDR. In another embodiment a single substitution is made in the heavy chain CDR3 region of cetuximab.

[0058] After such screening and selection, the selected mimetic may be synthesized, and various assays carried out to measure the biological or physiological activity of the mimetic to

select an EGFR antagonist. A preferred EGFR antagonist has one or more of the following properties: inhibits EGFR tyrosine kinase activity; blocks ligand binding to EGFR; inhibits EGFR dimerization (homodimerization with EGFR or heterodimerization with another EGFR family receptor subunit); inhibits EGFR substrate phosphorylation; inhibits EGFR mediated gene activation; inhibits growth or proliferation of a cell the expresses EGFR. Preferably, the antagonist has substantially similar or improved effectiveness as an EGFR antagonist as compared to Cetuximab.

[0059] Tyrosine kinase inhibition can be determined using well-known methods; for example, by measuring the autophosphorylation level of recombinant kinase receptor, and/or phosphorylation of natural or synthetic substrates. Thus, phosphorylation assays are useful in determining EGFR antagonists of the present invention. Phosphorylation can be detected, for example, using an antibody specific for phosphotyrosine in an ELISA assay or on a western blot. Some assays for tyrosine kinase activity are described in Panek et al., J. Pharmacol. Exp. Thera. (1997) 283: 1433-44 and Batley et al., Life Sci. (1998) 62: 143-50.

[0060] In addition, methods for detection of protein expression can be utilized to determine EGFR antagonists, wherein the proteins being measured are regulated by EGFR tyrosine kinase activity. These methods include immunohistochemistry (IHC) for detection of protein expression, fluorescence in situ hybridization (FISH) for detection of gene amplification, competitive radioligand binding assays, solid matrix blotting techniques, such as Northern and Southern blots, reverse transcriptase polymerase chain reaction (RT-PCR) and ELISA. See, e.g., Grandis et al., Cancer, (1996) 78:1284-92; Shimizu et al., Japan J. Cancer Res., (1994) 85:567-71; Sauter et al., Am. J. Path., (1996) 148:1047-53; Collins, Glia, (1995) 15:289-96; Radinsky et al., Clin. Cancer Res., (1995) 1:19-31; Petrides et al., Cancer Res., (1990) 50:3934-39; Hoffmann et al., Anticancer Res., (1997) 17:4419-26; Wikstrand et al., Cancer Res., (1995) 55:3140-48.

[0061] The ability of a mimetic to block ligand binding can be measured, for example, by an *in vitro* competitive assay such as is illustrated in Figure 4. In this assay, a ligand of EGFR such as EGF is immobilized, and a binding assay is carried to determine the effectiveness of the mimetic to competitively inhibit binding of EGFR to the immobilized ligand.

[0062] In vivo assays can also be utilized to determine EGFR antagonists. For example, receptor tyrosine kinase inhibition can be observed by mitogenic assays using cell lines stimulated with receptor ligand in the presence and absence of inhibitor. For example, A431cells (American Type Culture Collection (ATCC), Rockville, MD) stimulated with EGF can be used to assay EGFR inhibition. Another method involves testing for inhibition of growth of EGFR-expressing tumor cells, using for example, human tumor cells injected into a mouse. See U.S. Patent No. 6,365,157 (Rockwell et al.).

[0063] The present invention provides for coordinates of the co-crystal of the present invention on a computer readable format such as a magnetic disk, CD-ROM or a hard drive.

[0064] In another aspect, the present invention provides methods of treating EGFR-dependent diseases and conditions in mammals by administering a therapeutically effective amount of a mimetic of cetuximab. One skilled in the art would easily be able to diagnose such conditions and disorders using known, conventional tests. Treatment means any treatment of a disease in an animal and includes: (1) preventing the disease from occurring in a mammal which may be predisposed to the disease but does not yet experience or display symptoms of the disease; *e.g.*, prevention of the outbreak of the clinical symptoms; (2) inhibiting the disease, *e.g.*, arresting its development; or (3) relieving the disease, *e.g.*, causing regression of the symptoms of the disease. Therapeutically effective amount for the treatment of a disease means that amount which, when administered to a mammal in need thereof, is sufficient to effect treatment, as defined above, for that disease. A cetuximab mimetic of the invention may be administered with an antineoplastic agent such as, for example, a chemotherapeutic.

[0065] Cetuximab mimetics of the present invention are useful for treating tumors that express EGFR. EGFR expressing tumors are characteristically sensitive to EGF present in their environment, and can further be stimulated by tumor produced EGF or TGF-α. While not intending to be bound to any particular mechanism, the diseases and conditions that may be treated or prevented by the present methods include, for example, those in which tumor growth is stimulated through an EGFR paracrine and/or autocrine loop. The method is therefore effective for treating a solid tumor that is not vascularized, or is not yet substantially vascularized.

[0066] In another aspect of the invention, cetuximab mimetics are used to inhibit tumor-associated angiogenesis. EGFR stimulation of vascular endothelium is associated with vascularization of tumors. Typically, vascular endothelium is stimulated in a paracrine fashion by EGF and/or TGF- α from other sources (e.g., tumor cells). Accordingly, the cetuximab mimetics are effective for treating subjects with vascularized tumors or neoplasms.

[0067] Tumors that may be treated include primary tumors and metastatic tumors, as well as refractory tumors. Refractory tumors include tumors that fail to respond or are resistant to treatment with chemotherapeutic agents alone, antibodies alone, radiation alone or combinations thereof. Refractory tumors also encompass tumors that appear to be inhibited by treatment with such agents, but recur up to five years, sometimes up to ten years or longer after treatment is discontinued. The tumors may express EGFR at normal levels or they may overexpress EGFR at levels, for example, that are at least 10, 100, or 1000 times normal levels.

[8600] Examples of tumor that express EGFR and are stimulated by a ligand of EGFR include carcinomas, gliomas, sarcomas, adenocarcinomas, adenosarcomas, and adenomas. Such tumors can occur in virtually all parts of the body, including, for example, breast, heart, lung, small intestine, colon, spleen, kidney, bladder, head and neck, ovary, prostate, brain, pancreas, skin, bone, bone marrow, blood, thymus, uterus, testicles, cervix or liver. Some tumors observed to overexpress EGFR that may be treated according to the present invention include, but are not limited to, colorectal and head and neck tumors, especially squamous cell carcinoma of the head and neck, brain tumors such as glioblastomas, and tumors of the lung, breast, pancreas, esophagus, bladder, kidney, ovary, cervix, and prostate. Non-limiting examples of tumors observed to have constitutively active (i.e., unregulated) receptor tyrosine kinase activity include gliomas, non-small-cell lung carcinomas, ovarian carcinomas and prostate carcinomas. Other examples of tumors include Kaposi's sarcoma, CNS neoplasms, neuroblastomas, capillary hemangioblastomas, meningiomas and cerebral metastases, melanoma, gastrointestinal and renal carcinomas and sarcomas, rhabdomyosarcoma, glioblastoma, preferably glioblastoma multiforme, and leiomyosarcoma.

[0069] The present invention also provides a method of treating a non-cancer hyperproliferative disease in a mammal comprising administering to the mammal an effective amount of the antibody of the present invention. As disclosed herein, "hyperproliferative

disease" is defined as a condition caused by excessive growth of non-cancer cells that express a member of the EGFR family of receptors. The excess cells generated by a hyperproliferative disease express EGFR at normal levels or they may overexpress EGFR.

[0070] The types of hyperproliferative diseases that can be treated in accordance with the invention are any hyperproliferative diseases that are stimulated by a ligand of EGFR or mutants of such ligands. Examples of hyperproliferative disease include psoriasis, actinic keratoses, and seborrheic keratoses, warts, keloid scars, and eczema. Also included are hyperproliferative diseases caused by virus infections, such as papilloma virus infection. For example, psoriasis comes in many different variations and degrees of severity. Different types of psoriasis display characteristics such as pus-like blisters (pustular psoriasis), severe sloughing of the skin (erythrodermic psoriasis), drop-like dots (guttae psoriasis) and smooth inflamed lesions (inverse psoriasis). The treatment of all types of psoriasis (e. g., psoriasis vulgaris, psoriasis pustulosa, psoriasis erythrodermica, psoriasis arthropathica, parapsoriasis, palmoplantar pustulosis) is contemplated by the invention.

[0071] Administering the cetuximab mimetic includes delivering the mimetic to a mammal by any method that may achieve the result sought. The term mammal as used herein is intended to include, but is not limited to, humans, laboratory animals, domestic pets and farm animals. The mimetic may be administered, for example, orally, parenterally (intravenously or intramuscularly), topically, transdermally or by inhalation. Topical administration may be preferred for certain hyperproliferative disorders.

[0072] In an embodiment of the invention, cetuximab mimetic can be administered in combination with one or more other anti-neoplastic agents, such as chemotherapeutic agents. Radiation can also be employed. For examples of combination therapies, see, *e.g.*, U.S. Patent No. 6,217,866 (Schlessinger et al.) (Anti-EGFR antibodies in combination with anti-neoplastic agents); WO 99/60023 (Waksal et al.) (Anti-EGFR antibodies in combination with radiation). Any suitable anti-neoplastic agent can be used, such as a chemotherapeutic agent, radiation or combinations thereof. The anti-neoplastic agent can be an alkylating agent or an anti-metabolite. Examples of alkylating agents include, but are not limited to, cisplatin, cyclophosphamide, melphalan, and dacarbazine. Examples of anti-metabolites include, but not limited to, doxorubicin, daunorubicin, paclitaxel, irinotecan (CPT-11), and topotecan. When the

agent is radiation, the source of the radiation can be either external (external beam radiation therapy – EBRT) or internal (brachytherapy – BT) to the patient being treated. The dosage administered depends on numerous factors, including, for example, the type of agent, the type and severity tumor being treated and the route of administration of the agent. It should be emphasized, however, that the present invention is not limited to any particular dose.

[0073] For treatment of hyperproliferative disease, the cetuximab mimetic can be combined with any conventional treatment agent. For example, when the hyperproliferative disease is psoriasis, there are a variety of conventional systemic and topical agents available. Systemic agents for psoriasis include methotrexate, and oral retinoids, such as acitretin, etretinate, and isotretinoin. Other systemic treatments of psoriasis include hydroxyurea, NSAIDS, sulfasalazine, and 6-thioguanine. Antibiotics and antimicrobials can be used to treat or prevent infection that can cause psoriasis to flare and worsen. Topical agents for psoriasis include anthralin, calcipotriene, coal tar, corticosteroids, retinoids, keratolytics, and tazarotene. Topical steroids are one of the most common therapies prescribed for mild to moderate psoriasis. Topical steroids are applied to the surface of the skin, but some are injected into the psoriasis lesions.

[0074] Hyperproliferative disease treatments further include administration of the cetuximab mimetic in combination with phototherapy. Phototherapy includes administration of any wavelength of light that reduces symptoms of the hyperproliferative disease, as well as photoactivation of a chemotherapeutic agent (photochemotherapy). For further discussion of treatment of hyperproliferative disorders, see WO 02/11677 (Teufel et al.) (Treatment of hyperproliferative diseases with epidermal growth factor receptor antagonists).

[0075] In certain embodiments of the invention, cetuximab mimetics of the invention can be administered with EGFR antagonists and/or antagonists of other receptors involved in tumor growth or angiogenesis. The receptor antagonists may bind to the receptor or the ligand to block receptor-ligand binding, or the receptor antagonists may otherwise neutralize the receptor tyrosine kinase. Ligands of EGFR include, for example, EGF, TGF-α amphiregulin, heparin-binding EGF (HB-EGF) and betacellulin. EGF and TGF-α are thought to be the main endogenous ligands that result in EGFR-mediated stimulation, although TGF-α has been shown

to be more potent in promoting angiogenesis. Accordingly, EGFR antagonists include antibodies that bind to such ligands and thereby block binding to and activation of EGFR.

[0076] The cetuximab mimetic can be used in combination with a VEGFR antagonist. In one embodiment of the invention, a cetuximab mimetic is used in combination with a receptor antagonist that binds specifically to VEGFR-2/KDR receptor (PCT/US92/01300, filed Feb. 20, 1992; Terman et al., Oncogene 6: 1677-1683 (1991)). In another embodiment of the invention, a cetuximab mimetic is used in combination with a receptor antagonist that binds specifically to VEGFR-1/Flt-1 receptor (Shibuya M. et al., Oncogene 5, 519-524 (1990)). In another embodiment, a cetuximab mimetic is used in combination with a receptor antagonist that binds to a VEGFR ligand. For example, Avastin[®] (bevacizumab) is an antibody that binds VEGF. Particularly preferred are antigen-binding proteins that bind to the extracellular domain of VEGFR-1 or VEGFR-2 and block binding by ligand (VEGF or PIGF), and/or neutralize VEGFinduced or PIGF-induced activation. For example, Mab IMC-1121 binds to soluble and cell surface-expressed KDR. Mab IMC-1121 comprises the V_H and V_L domains obtained from a human Fab phage display library. (See WO 03/075840) In another example, ScFv 6.12 binds to soluble and cell surface-expressed Flt-1. ScFv 6.12 comprises the V_H and V_L domains of mouse monoclonal antibody MAb 6.12. A hybridoma cell line producing MAb 6.12 has been deposited as ATCC number PTA-3344.

[0077] In another embodiment, a cetuximab mimetic is administered with an antagonist of insulin-like growth factor receptor (IGFR). In certain tumor cells, inhibition of EGFR function can be compensated by upregulation of other growth factor receptor signaling pathways, and particularly by IGFR stimulation. Further, inhibition of IGFR signaling results in increased sensitivity of tumor cells to certain therapeutic agents. Stimulation of either EGFR or IGFR results in phosphorylation of common downstream signal transduction molecules, including Akt and p44/42, although to different extents. Accordingly, in an embodiment of the invention, an IGFR antagonist (e.g., an antibody that binds to IGF or IGFR and neutralizes the receptor) is coadministered with a cetuximab mimetic of the invention, thereby blocking a second input into the common downstream signaling pathway (e.g., inhibiting activation of Akt and/or p44/42). An example of a human antibody specific for IGFR is IMC-A12 (See WO 2005/016970).

[0078] Other examples of growth factor receptors involved in tumorigenesis against which antagonists may be directed are the receptors for platelet-derived growth factor (PDGFR), hepatocyte growth factor (HGFR), nerve growth factor (NGFR), fibroblast growth factor (FGFR), and macrophage stimulating protein (RON).

[0079] The cetuximab mimetics can also be administered with intracellular RTK antagonists that inhibit activity of RTKs or their associated downstream signaling elements that are involved in tumor growth or tumor-associated angiogenesis. The intracellular RTK antagonists are preferably small molecules. Some examples of small molecules include organic compounds, organometallic compounds, salts of organic compounds and organometallic compounds, and inorganic compounds. Atoms in a small molecule are linked together via covalent and ionic bonds; the former is typical for small organic compounds such as small molecule tyrosine kinase inhibitors and the latter is typical of small inorganic compounds. The arrangement of atoms in a small organic molecule may represent a chain, e.g. a carbon-carbon chain or carbon-heteroatom chain or may represent a ring containing carbon atoms, e.g. benzene or a policyclic system, or a combination of carbon and heteroatoms, i.e., heterocycles such as a pyrimidine or quinazoline. Although small molecules can have any molecular weight, they generally include molecules that would otherwise be considered biological molecules, except their molecular weight is not greater than 650 D. Small molecules include both compounds found in nature, such as hormones, neurotransmitters, nucleotides, amino acids, sugars, lipids, and their derivatives as well as compounds made synthetically, either by traditional organic synthesis, bio-mediated synthesis, or a combination thereof. See e.g. Ganesan, Drug Doscov. Today 7(1): 47-55 (Jan. 2002); Lou, Drug Discov. Today, 6(24): 1288-1294 (Dec. 2001).

[0080] More preferably, the small molecule to be used as an intracellular RTK antagonist according to the present invention is an intracellular EGFR antagonist that competes with ATP for binding to EGFR's intracellular binding region having a kinase domain or to proteins involved in the signal transduction pathways of EGFR activation. Examples of such signal transduction pathways include the ras-mitogen activated protein kinase (MAPK) pathway, the phosphatidylinosital-3 kinase (Pl3K)-Akt pathway, the stress-activated protein kinase (SAPK) pathway, and the signal transducers and activators of transcription (STAT) pathways. Non-limiting examples of proteins involved in such pathways (and to which a small molecule

EGFR antagonist according to the present invention can bind) include GRB-2, SOS, Ras, Raf, MEK, MAPK, and matrix metalloproteinases (MMPs).

[0081] One example of a small molecule EGFR antagonist is IRESSATM (ZD1939), which is a quinozaline derivative that functions as an ATP-mimetic to inhibit EGFR. *See* U.S. Patent No. 5,616,582 (Zeneca Limited); WO 96/33980 (Zeneca Limited) at p. 4; *see also*, Rowinsky *et al.*, Abstract 5 presented at the 37th Annual Meeting of ASCO, San Francisco, CA, 12-15 May 2001; Anido *et al.*, Abstract 1712 presented at the 37th Annual Meeting of ASCO, San Francisco, CA, 12-15 May 2001. Another example of a small molecule EGFR antagonist is TARCEVATM (OSI-774), which is a 4-(substitutedphenylamino)quinozaline derivative [6,7-Bis(2-methoxy-ethoxy)-quinazolin-4-yl]- (3-ethynyl-phenyl)amine hydrochloride] EGFR inhibitor. *See* WO 96/30347 (Pfizer Inc.) at, for example, page 2, line 12 through page 4, line 34 and page 19, lines 14-17. *See also* Moyer *et al.*, *Cancer Res.*, 57: 4838-48 (1997); Pollack *et al.*, *J. Pharmacol.*, 291: 739-48 (1999). TARCEVATM may function by inhibiting phosphorylation of EGFR and its downstream PI3/Akt and MAP (mitogen activated protein) kinase signal transduction pathways resulting in p27-mediated cell-cycle arrest. *See* Hidalgo *et al.*, Abstract 281 presented at the 37th Annual Meeting of ASCO, San Francisco, CA, 12-15 May 2001.

[0082] Other small molecules are also reported to inhibit EGFR, many of which are thought to being to the tyrosine kinase domain of an EGFR. Some examples of such small molecule EGFR antagonists are described in WO 91/116051, WO 96/30347, WO 96/33980, WO 97/27199 (Zeneca Limited), WO 97/30034 (Zeneca Limited), WO 97/42187 (Zeneca Limited), WO 97/49688 (Pfizer Inc.), WO 98/33798 (Warner Lambert Company), WO 00/18761 (American Cyanamid Company), and WO 00/31048 (Warner Lambert Company). Examples of specific small molecule EGFR antagonists include Cl-1033 (Pfizer), which is a quinozaline (N-[4-(3-chloro-4-fluoro-phenylamino)-7-(3-morpholin-4-yl-propoxy)-quinazolin-6-yl]-acrylamide) inhibitor of tyrosine kinases, particularly EGFR and is described in WO 00/31048 at page 8, lines 22-6; PKI166 (Novartis), which is a pyrrolopyrimidine inhibitor of EGFR and is described in WO 97/27199 at pages 10-12; GW2016 (GlaxoSmithKline), which is an inhibitor of EGFR and HER2; EKB569 (Wyeth), which is reported to inhibit the growth of tumor cells that overexpress EGFR or HER2 in vitro and in vivo; AG-1478 (Tryphostin), which is a quinazoline small molecule that inhibits signaling from both EGFR and erbB-2; AG-1478 (Sugen), which is bisubstrate inhibitor that also inhibits protein kinase CK2; PD 153035 (Parke-Davis) which is

reported to inhibit EGFR kinase activity and tumor growth, induce apoptosis in cells in culture, and enhance the cytotoxicity of cytotoxic chemotherapeutic agents; SPM-924 (Schwarz Pharma), which is a tyrosine kinase inhibitor targeted for treatment of prostrate cancer; CP-546,989 (OSI Pharmaceuticals), which is reportedly an inhibitor of angiogenesis for treatment of solid tumors; ADL-681, which is a EGFR kinase inhibitor targeted for treatment of cancer; PD 158780, which is a pyridopyrimidine that is reported to inhibit the tumor growth rate of A4431 xenografts in mice; CP-358,774, which is a quinzoline that is reported to inhibit autophosphorylation in HN5 xenografts in mice; ZD1839, which is a quinzoline that is reported to have antitumor activity in mouse xenograft models including vulvar, NSCLC, prostrate, ovarian, and colorectal cancers; CGP 59326A, which is a pyrrolopyrimidine that is reported to inhibit growth of EGFR-positive xenografts in mice; PD 165557 (Pfizer); CGP54211 and CGP53353 (Novartis), which are dianilnophthalimides. Naturally derived EGFR tyrosine kinase inhibitors include genistein, herbimycin A, quercetin, and erbstatin.

[0083] Further small molecules reported to inhibit EGFR and that are therefore within the scope of the present invention are tricyclic compounds such as the compounds described in U.S. Patent No. 5,679,683; quinazoline derivatives such as the derivatives described in U.S. Patent No. 5,616,582; and indole compounds such as the compounds described in U.S. Patent No. 5,196,446.

[0084] In another embodiment, the EGFR antagonist can be administered in combination with one or more suitable adjuvants, such as, for example, cytokines (IL-10 and IL-13, for example) or other immune stimulators, such as, but not limited to, chemokine, tumor-associated antigens, and peptides. See, *e.g.*, Larrivée et al., supra. It should be appreciated, however, that administration of only a cetuximab mimetic is sufficient to prevent, inhibit, or reduce the progression of the tumor in a therapeutically effective manner.

[0085] For combination therapies, the cetuximab mimetic and anti-neoplastic agent or receptor antagonist may be administered concomitantly or sequentially.

[0086] This invention also provides a pharmaceutical composition/formulation containing a cetuximab mimetic and a pharmaceutically acceptable carrier. Carrier as used herein include pharmaceutically acceptable carriers, excipients, or stabilizers which are nontoxic to the cell or mammal being exposed thereto at the dosages and concentrations employed. Often

the physiologically acceptable carrier is an aqueous pH buffered solution. Examples of physiologically acceptable carriers include buffers such as phosphate, citrate and other organic acids; antioxidants including ascorbic acid; low molecular weight (less than about 10 residues) polypeptide; proteins, such as serum albumin, gelatin; hydrophilic polymers such as polyvinylpyrrolidone; amino acids such as glycine, glutamine, asparagine, arginine or lysine; monosaccharides, disaccharides, and other carbohydrates including glucose, mannose, or dextrins; chelating agents such as EDTA; sugar alcohols such as mannitol or sorbitol; salt forming counterions such as sodium; and/or nonionic surfactants such as TWEEN®, polyethylene glycol (PEG), and PLURONICS®.

[0087] The active ingredients may also be entrapped in microcapsules prepared, for example, by interfacial polymerization, for example, hydroxymethylcellulose or gelatinmicrocapsules and poly(methylmethacylate) microcapsules, respectively, in colloidal drug delivery systems (for example, liposomes, albumin microspheres, microemulsions, nanoparticles, and nanocapsules) or in macroemulsions. The formulations to be used for in vivo administration must be sterile. This is readily accomplished by filtration through sterile filtration membranes. Sustained-release preparations may be prepared. Suitable examples of sustained-release preparations include semipermeable matrices of solid hydrophobic polymers containing the antibody, which matrices are in the form of shaped articles, e.g., films, or microcapsules. Examples of sustained-release matrices include polyesters, hydrogels (for example, poly(2-hydroxyethyl-methacrylate), or poly(vinylalcohol)), polylactides (U.S. Pat. No. 3,773,919), copolymers of L-glutamic acid and γ- ethyl-L-glutamate, non-degradable ethylenevinyl acetate, degradable lactic acid-glycolic acid copolymers such as the LUPRON DEPOT® (injectable microspheres composed of lactic acid-glycolic acid copolymer and leuprolide acetate), and poly-D-(-)-3-hydroxybutyric acid. While polymers such as ethylene-vinyl acetate and lactic acid-glycolic acid enable release of molecules for over 100 days, certain hydrogels release proteins for shorter time periods.

[0088] The present invention also includes kits for inhibiting tumor growth and/or tumor-associated angiogenesis comprising a therapeutically effective amount of a cetuximab mimetic. The kits can further contain any suitable antagonist of, for example, another growth factor receptor involved in tumorigenesis or angiogenesis (e.g., VEGFR-1/Flt-1, VEGFR-2, PDGFR, IGFR, NGFR, FGFR, etc, as described above). Alternatively, or in addition, the kits of

the present invention can further comprise an anti-neoplastic agent. Examples of suitable anti-neoplastic agents in the context of the present invention have been described herein. The kits of the present invention can further comprise an adjuvant; examples have also been described above.

[0089] Moreover, included within the scope of the present invention is use of the present antibodies *in vivo* and *in vitro* for investigative or diagnostic methods, which are well known in the art. The diagnostic methods include kits, which contain mimetics of the present invention.

[0090] Accordingly, the mimetics can be used *in vivo* and *in vitro* for investigative, diagnostic, prophylactic, or treatment methods, which are well known in the art. Of course, it is to be understood and expected that variations in the principles of invention herein disclosed can be made by one skilled in the art and it is intended that such modifications are to be included within the scope of the present invention.

[0091] All references mentioned herein are incorporated by reference.

EXAMPLES

[0092] The following examples are offered for illustrative purposes only, and are not intended to limit the scope of the present invention in any way.

[0093] **Protein expression and purification.** sEGFR was produced and purified from baculovirus-infected Sf9 cells as described by Ferguson, K.M. et al., 2000, Embo J 19, 4632-4643, and was used without modification of its glycosylation state. This sEGFR was further purified by size exclusion chromatography (SEC) using a SEC250 column (BioRad) preequilibrated with 25 mM HEPES, 100 mM NaCl, pH 7.5 and concentrated to 6.2 mg/ml. Cetuximab Fab fragment was prepared by treatment of the IgG protein with papain. The IgG protein (20 mg/ml) was incubated with papain (1:1000 w:w) at 37°C for one hour and the digestion was terminated by addition of iodoacetemide (75 mM final concentration). The reaction mixture was loaded onto a Protein-A column and the flow-through fraction containing the Fab fragments was collected and concentrated. The cetuximab Fab was fractionated by SEC and mixed with sEGFR to give a two fold molar excess of Fab over sEGFR. Excess Fab was separated from the sEGFR:Fab complex using the same SEC column. The peak fractions

containing the sEGFR:Fab complex (as confirmed by SDS-PAGE), were concentrated to 11 mg/ml.

[0094] Crystallization and data collection. The sEGFR:Fab complex was buffer-exchanged into 25mM HEPES, pH 7.5, containing 50mM NaCl, and crystallized by the hanging drop method from a drop containing equal parts of a 78 µM sEGFR:Fab complex solution and reservoir solution of 15 % PEG3350, 250 mM (NH₄)₂SO₄, 100 mM imidazole, 10 mM CdCl₂, pH 7.5. Streak seeding was used to produce large (0.08 X 0.08 X 0.6 mm) single crystals. Crystals were cryo-stabilized with a brief exposure to 15 % PEG3350, 15 % Ethylene Glycol, 250 mM (NH₄)₂SO₄, 100 mM imidazole, 10 mM CdCl₂, pH 7.5, and were flash frozen in liquid nitrogen. Data were collected at CHESS beamline A1, using an ADSC Quantum-210 CCD detector, and were processed using HKL2000 (See, Otwinowski, Z., and Minor, W. (1997). Processing of X-ray Diffraction Data Collected in Oscillation Mode. In Macromolecular Crystallography, Volume 276, C.W. Carter Jr. and R.M. Sweet, eds. (New York: Academic Press), pp. 307-326.

[0095] Structure determination and refinement. Search models for molecular replacement were derived from the coordinates of tethered sEGFR (pdb id. 1NOL; Ferguson, K.M. et al., 2003) and those of the structure of the Fab fragment alone (P. Jeffrey and P. Kussie unpublished data). An initial solution was found for a domain I/II fragment (amino acids 5 -240) combined with a domain III fragment of sEGFR using the dyad option of MOLREP (The CCP4 Suite: Programs for Protein Crystallography. Acta Cryst. D50, 760-763 (1990)) to search for the best relative orientation of these two fragments. With the solution for these fragments fixed it was possible to find a solution for the Fab fragment. Rigid body refinement with CNS was used to optimize the orientation of the individual sub-domains of the Fab. Following several rounds of model building using 'O' (Jones, T.A. et al., 1991, Acta Crystallogr A 47 (Pt 2), 110-119) and refinement using CNS (Brunger, A.T. et al., 1998, Acta Crystallogr D Biol Crystallogr 54 (Pt 5), 905-921), interpretable density for the remaining portions of sEGFR (Cterminal part of domain II and domain IV) could be seen in composite simulated-annealing omit-maps (calculated with CNS). The final stages of refinement employed TLS refinement (Winn, M.D. et al., 2001, Acta Crystallogr D Biol Crystallogr 57, 122-133) with anisotropic motion tensors refined for each of the four domains of sEGFR and each of the domains of the

Fab, using REFMAC5 (The CCP4 Suite: Programs for Protein Crystallography. Acta Cryst. *D50*, 760-763 (1990).

[0096] BIAcore binding studies. Surface plasmon resonance binding experiments, performed using a BIAcore 3000 instrument, were performed in 10mM Hepes buffer, pH 8.0, that contained 150mM NaCl, 3mM EDTA, and 0.005% Tween 20 (HBS-EP8) at 25°C. EGFagonists (200 μg/ml) were coupled to a CM5 BIAcore sensor chip using standard amine coupling. Optimal coupling was obtained in 10 mM sodium acetate at pH 4.0 for EGF and TGFα and at pH 6.0 for HB-EGF. Binding of sEGFR to these immobilized ligands was performed and analyzed exactly as described in Ferguson, K.M. et al., 2000 (Figure 4c). The Fab fragment of cetuximab was coupled to a separate sensor chip using amine coupling. The Fab was diluted to 50 μg/ml in 10 mM sodium acetate at pH 5.5 and passed over the activated surface for 5 minute at a flow rate 10 µl/minute. The binding of sEGFR to this surface was determined exactly as for sEGFR binding to immobilized EGF (Ferguson, K.M. et al., 2000) with the following modifications; a long contact time was used (10 μl/min for 20 minutes; 200 µl injection) to ensure that equilibrium was reached in binding of sEGFR to the surface even at low concentration, the surface was regenerated between data points with two 5 µl injections of 10 mM glycine, 1M NaCl (pH 3.0) to rapidly remove residual bound sEGFR. This regeneration does not impair the binding of sEGFR to the Fab; the observed response for a control sEGFR sample is constant over multiple cycles of binding and regeneration (Figure 4(a)).

[0097] The effect of added Fab upon the binding of sEGFR to immobilized ligand was determined using the same EGF-agonist chip described above. A series of samples were prepared that contained 600 nM sEGFR and increasing amounts of Fab. The fraction of the maximal response in the absence of added Fab is plotted for each ligand (Figure 4(b)).

[0098] **EGFR:Cetuximab Fab Interface.** The following amino acids are involved in direct hydrogen bonds with the Fab (3.25 Å cut-off, calculated using the program CONTACT (CCP4)):

sEGFR	Cetuximab* Light Chain	Cetuximab* Heavy Chain	Туре
Ser 468	Asn 91		Main chain – main chain
Asn 469	Trp 94		Main chain – main chain
Arg 353		Gly 54	Side chain – main chain
Gln 384		Tyr 102	Side chain – side chain
Gln 408		Tyr 102	Side chain – side chain
Ser 418		Trp 52	Side chain – side chain
Ser 440		Tyr 102	Side chain – main chain
Lys 465		Asp 103	Side chain — side chain

^{*}amino acids in the Fab are numbered in a simple sequential manner.

Additional amino acids that are close (4 Å cut-off) are shown on the following sequence.

В1	310 RKVCNGIGIG	320 EFKDSLSINA	330 TNIKHFKNCT	340 SISGDLHILP	350 VAF R GDSFTH	360 TPPLDPQELD	
	370 ILKTVKEITG	380 FL L I Q AWPEN	390 RTDLHAFENL	400 EIIRGRTK QH	410 GQFSLAV VS L	420 NITSLGLRSL	
	430 KEISDGDV I I	440 SG N <i>K</i> NLCYAN	450 TINWKKLFGT	460 SGOKT K I <i>IS</i> N	470 RGENSCKA		

Bold Fab Heavy chain
Underlined and Italic Fab Light chain
Italic Both chains of Fab

The binding site for cetuximab Fab is partially over-lapping with the ligand binding site. The following amino acids are involved in contact to TGF α or EGF, as reported by Garrett *et al.* and Ogiso *et al.*

В1	310 RKVCNGIGIG	. — -	330 TNIKHFKNCT	340 SISGDL <u>HILP</u>	350 <u>VAFRGDSF</u> TH	360 TPPLDPQELD
	370 ILKTVKEITG	380 FL <u>L</u> I <u>Q</u> AWPEN	390 RTDLHAFENL	400 EIIRGRTK <u>QH</u>	410 G <u>O</u> FSLAV <u>VS</u> L	420 NITSLGLRSL
	430 KEISDGDV <u>I</u> I	440 SGNKNLCYAN	450 TINWKKLFGT	460 SGQKT <u>K</u> IISN	470 RGENSCKA	

Underlined EGF/TGFα

Table 1. Data collection and refinement statistics

Data Collection Statistics ^a	
Space group	$P2_1$
Unique cell dimensions	$a = 77.8 \text{ Å}, b = 70.9 \text{ Å}, c = 147.1 \text{ Å}; \beta = 102.5^{\circ}$
X-ray source	CHESS A1
Resolution limit	2.8Å
Observed/unique	1411,255/38,478
Completeness	99.8 (90.6)
R_{sym}^{b}	0.03 (0.33)
<i o=""></i>	17 (5.6)
Refinement Statistics	
Resolution limits	500-2.8Å
No. of reflections/no. test set	38098/1900
R factor (R _{free}) ^c	0.22 (0.27)
Model	
Protein	sEGFR - aa 1-614 Fab: Light chain; aa 1-211, Heavy Chain; aa 1-220,
	25 saccharide units
Total number of atoms	25 saccharide units 8131

a Numbers in parentheses refer to last resolution shell

RMSD bond angles (°)

2.63°

b $R_{sym} = \Sigma |I_h - \langle I_h \rangle|/\Sigma I_h$, where $\langle I_h \rangle$ = average intensity over symmetry equivalent measurements

c R factor = $\Sigma |F_0 - F_c|/\Sigma F_o$, where summation is over data used in the refinement; R_{free} includes only 5% of the data excluded from the refinement

Table 2:

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HORMONE/GROWTH FACTOR RECEPTOR
HEADER
TITLE
              STRUCTURE OF THE EXTRACELLULAR DOMAIN OF HUMAN EPIDERMAL
TITLE 2 GROWTH FACTOR (EGF) RECEPTOR IN AN COMPLEX WITH IMC-C225
TITLE 3 (CETUXIMBA/ERBITUX).

COMPND MOL_ID: 1;

COMPND 2 MOLECULE: EPIDERMAL GROWTH FACTOR RECEPTOR;

COMPND 3 CHAIN: A;

COMPND 4 FRAGMENT: EXTRACELLULAR DOMAIN;
COMPND 5 ENGINEERED: YES;
COMPND 6 MOL_ID: 2;
COMPND 7 MOLECULE: FAB FRAGMENT FROM CETUXIMAB;
COMPND 8 CHAIN: C;
COMPND 9 CHAIN: D;
COMPND 10 SYNONYM: IMC-C225, ERBITUX;
COMPND 11 ENGINEERED: YES
SOURCE MOL_ID: 1;
SOURCE 2 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
SOURCE 3 ORGANISM_COMMON: HUMAN;
SOURCE 4 EXPRESSION SYSTEM: SPODOPTERA FRUGIPERDA;
SOURCE 5 EXPRESSION SYSTEM COMMON: FALL ARMYWORM;
SOURCE 6 EXPRESSION_SYSTEM_STRAIN: VIRUS;
SOURCE 7 EXPRESSION_SYSTEM_VECTOR_TYPE: BACULOVIRUS;
SOURCE 8 MOL ID: 2;
SOURCE PROVIDED BY IMCLONE INC. AS FAB FRAGMENT
EXPDTA X-RAY DIFFRACTION
REMARK 1
REMARK 2 RESOLUTION. 2.80 ANGSTROMS.
REMARK 3 REFINEMENT.
REMARK 3 PROGRAM : REFMAC 5.1.24
REMARK 3 AUTHORS : MURSHUDOV, VAGIN, DODSON
REMARK 3
REMARK 3
                REFINEMENT TARGET : MAXIMUM LIKELIHOOD
REMARK 3
REMARK 3 DATA USED IN REFINEMENT.
REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS): 2.81
REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS): 50.00
REMARK 3 DATA CUTOFF (SIGMA(F)): NONE
REMARK 3 COMPLETENESS FOR RANGE (%): 99.44
REMARK 3 NUMBER OF REFLECTIONS
REMARK 3
REMARK 3 FIT TO DATA USED IN REFINEMENT.
REMARK 3 CROSS-VALIDATION METHOD : THROUGHOUT
REMARK 3 FREE R VALUE TEST SET SELECTION : RANDOM
REMARK 3 R VALUE (WORKING + TEST SET): 0.22623
REMARK 3 R VALUE (WORKING SET): 0.22396
REMARK 3 FREE R VALUE : 0.26877
REMARK 3 FREE R VALUE TEST SET SIZE (%): 5.0
                                                              : 1931
REMARK 3 FREE R VALUE TEST SET COUNT
REMARK 3
REMARK 3 FIT IN THE HIGHEST RESOLUTION BIN.
REMARK 3 TOTAL NUMBER OF BINS USED : 20
REMARK 3 BIN RESOLUTION RANGE HIGH : 2.805
REMARK 3 BIN RESOLUTION RANGE LOW : 2.878
REMARK 3 REFLECTION IN BIN (WORKING SET): 2605
REMARK 3 BIN R VALUE (WORKING SET): 0.335
REMARK 3 BIN FREE R VALUE SET COUNT: 141
                 BIN FREE R VALUE SET COUNT : 141
BIN FREE R VALUE : 0.381
REMARK 3 BIN FREE R VALUE
REMARK 3
REMARK 3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK 3 ALL ATOMS
REMARK 3
REMARK 3 B VALUES.
                                                            8131
                                    :
REMARK 3 FROM WILSON PLOT (A**2): NULL REMARK 3 MEAN B VALUE (OVERALL, A**2): 7.403
REMARK 3 OVERALL ANISOTROPIC B VALUE.
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```
REMARK 3 B11 (A**2) : 1.07
REMARK 3 B22 (A**2) : 0.32
REMARK 3 B33 (A**2) : -1.83
 REMARK 3 B12 (A**2): 0.00
REMARK 3 B13 (A**2): -1.01
REMARK 3 B23 (A**2): 0.00
REMARK 3
 REMARK 3 ESTIMATED OVERALL COORDINATE ERROR.
 REMARK 3 ESU BASED ON R VALUE
                                                                                                                                                              (A): 0.910
 REMARK 3
REMARK 3
REMARK 3
                                  ESU BASED ON FREE R VALUE
                                                                                                                                                             (A): 0.362
                                 ESU BASED ON MAXIMUM LIKELIHOOD (A): 0.295
ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A**2): 15.477
 REMARK 3 CORRELATION COEFFICIENTS.
 REMARK 3 CORRELATION COEFFICIENT FO-FC : 0.925
REMARK 3 CORRELATION COEFFICIENT FO-FC FREE : 0.888
 REMARK 3
 REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES
                                                                                                                                  COUNT RMS WEIGHT
 REMARK 3 BOND LENGTHS REFINED ATOMS (A): 8349 ; 0.028 ; 0.021 REMARK 3 BOND LENGTHS OTHERS (A): 7109 ; 0.002 ; 0.020
REMARK 3 BOND LENGTHS REFINED ATOMS (A): 8349; 0.020; 0.021
REMARK 3 BOND LENGTHS OTHERS (A): 7109; 0.002; 0.020
REMARK 3 BOND ANGLES REFINED ATOMS (DEGREES): 11411; 2.623; 1.993
REMARK 3 BOND ANGLES OTHERS (DEGREES): 16529; 1.130; 3.000
REMARK 3 TORSION ANGLES, PERIOD 1 (DEGREES): 1042; 9.222; 5.000
REMARK 3 CHIRAL-CENTER RESTRAINTS (A**3): 1349; 0.132; 0.200
REMARK 3 GENERAL PLANES REFINED ATOMS (A): 9136; 0.009; 0.020
REMARK 3 GENERAL PLANES OTHERS (A): 1532; 0.007; 0.020
REMARK 3 NON-BONDED CONTACTS REFINED ATOMS (A): 1896; 0.255; 0.200
REMARK 3 NON-BONDED CONTACTS REFINED ATOMS (A): 1896; 0.255; 0.200
REMARK 3 NON-BONDED CONTACTS OTHERS (A): 8610; 0.250; 0.200
REMARK 3 NON-BONDED TORSION OTHERS (A): 5383; 0.106; 0.200
REMARK 3 H-BOND (X...Y) REFINED ATOMS (A): 146; 0.207; 0.200
REMARK 3 SYMMETRY VDW REFINED ATOMS (A): 11; 0.149; 0.200
REMARK 3 SYMMETRY VDW OTHERS (A): 51; 0.288; 0.200
REMARK 3 SYMMETRY H-BOND REFINED ATOMS (A): 3; 0.346; 0.200
REMARK 3 SYMMETRY H-BOND REFINED ATOMS (A): 3;0.346;0.200
REMARK 3
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS WEIGHT
REMARK 3 MAIN-CHAIN BOND REFINED ATOMS (A**2): 5197;0.717;1.500
REMARK 3 MAIN-CHAIN ANGLE REFINED ATOMS (A**2): 8355;1.289;2.000
REMARK 3 SIDE-CHAIN BOND REFINED ATOMS (A**2): 3152;2.076;3.000
REMARK 3 SIDE-CHAIN ANGLE REFINED ATOMS (A**2): 3056;3.116;4.500
REMARK 3
                                                                                                                                                                             WEIGHT
 REMARK 3 NCS RESTRAINTS STATISTICS
 REMARK 3 NUMBER OF NCS GROUPS : NULL
 REMARK 3
 REMARK 3 BULK SOLVENT MODELLING.
REMARK 3 METHOD USED : BABINET N
                                METHOD USED : BABINET MODEL WITH MASK
 REMARK 3
                                 PARAMETERS FOR MASK CALCULATION
 REMARK 3 VDW PROBE RADIUS : 1.40
 REMARK 3 ION PROBE RADIUS : 0.80
REMARK 3 SHRINKAGE RADIUS : 0.80
REMARK 3
 REMARK
 REMARK 3 OTHER REFINEMENT REMARKS:
 REMARK 3 HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS
 REMARK 3
LINK C1 NAG E3281 1.439 ND2 ASN A 328
LINK C1 NAG E3371 1.439 ND2 ASN A 337
LINK C1 NAG E3891 1.439 ND2 ASN A 389
LINK C1 NAG E5441 1.439 ND2 ASN A 544
LINK C1 NAG E5791 1.439 ND2 ASN A 579
LINK C1 NAG E 881 1.439 ND2 ASN A 579
LINK C1 NAG E 881 1.439 ND2 ASN D 88
LINK O3 NAG E 321 N2 NAG E 322
LINK O3 NAG E 321 C7 NAG E 322
LINK O3 NAG E 321 C7 NAG E 322
LINK O3 NAG E 321 O7 NAG E 322
LINK O3 NAG E 321 O7 NAG E 322
                                                                                                                                                                                         NAG-ASN
LINK C1 NAG E3371 1.439 ND2 ASN A 337
LINK C1 NAG E3891 1.439 ND2 ASN A 389
LINK C1 NAG E5441 1.439 ND2 ASN A 544
LINK C1 NAG E5791 1.439 ND2 ASN A 544
LINK C1 NAG E881 1.439 ND2 ASN A 579
LINK C1 NAG E 881 1.439 ND2 ASN A 579
LINK C1 NAG E 881 1.439 ND2 ASN D 88
LINK O3 NAG E 321 N2 NAG E 322
LINK O3 NAG E 321 C7 NAG E 322
LINK O3 NAG E 321 C7 NAG E 322
LINK O2 MAN E 324 07 NAG E 322
LINK O2 MAN E 324 1.080 O2 MAN E 323
CISPEP 1 SER C 7 PRO C 8
CISPEP 2 TYR C 140 PRO C 141 0.00
CISPEP 3 PHE D 152 PRO D 153 0.00
CISPEP 4 GLU D 154 PRO D 155 0.00
LINK NAG E3281
                                                                                                                                                                                         NAG-ASN
                                                                                                                                                                                         NAG-ASN
                                                                                                                                                                                       NAG-ASN
                                                                                                                                                                                    NAG-ASN
                                                                                                                                                                                  ASN
NAG-ASN
NAG-NAC
                                                                                                                                                                                       NAG-NAG1
                                                                                                                                                                                   NAG-NAG2
                                                                                                                                                                                       MAN-MAN
                                                                                                                                             0.00
                                                                                                                                              0.00
                                                                                                                                             0.00
                                                                                                                                             0.00
 LINK
                                          NAG E3281
                                                                                                                         NAG E3282
                                                                                                                                                                                       BETA1-4
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LINK	NAG E3282 MAN E3283	MAN E3283 MAN E3284	BETA1-4 BETA1-6
LINK	MAN E3284	MAN E3287	ALPHA1-3
LINK	MAN E3287	MAN E3288 MAN E3285	BETA1-2
LINK	MAN E3283 MAN E3285	MAN E3286	ALPHA1-3 BETA1-2
LINK LINK	MAN E3284	MAN E3289	ALPHA1-6
LINK	NAG E3371	NAG E3372	ALPHA1-4
LINK	NAG E3371 NAG E3372	MAN E3373	ALPHA1-4
LINK	MAN E3373	MAN E3374	BETA1-3
LINK	NAG E4201	NAG E4202	ALPHA1-4
LINK	NAG E4202	MAN E4203	ALPHA1-4
SSBOND	1 CYS A 34 CYS A	7	
SSBOND	2 CYS A 163 CYS A	133	
SSBOND	3 CYS A 175 CYS A	166	
SSBOND	4 CYS A 183 CYS A	170	
SSBOND	5 CYS A 207 CYS A	195	
SSBOND	6 CYS A 216 CYS A	208	
SSBOND	7 CYS A 224 CYS A	212	
SSBOND	8 CYS A 236 CYS A	227	
SSBOND	9 CYS A 283 CYS A	271 287	
SSBOND SSBOND	10 CYS A 302 CYS A 11 CYS A 309 CYS A	305	
SSBOND	12 CYS A 338 CYS A	313	
SSBOND	13 CYS A 499 CYS A	486	
SSBOND	14 CYS A 511 CYS A	502	
SSBOND	15 CYS A 531 CYS A	515	
SSBOND	16 CYS A 547 CYS A	534	
SSBOND	17 CYS A 555 CYS A	538	
SSBOND	18 CYS A 567 CYS A	558	
SSBOND	19 CYS A 593 CYS A	571	
SSBOND	20 CYS A 604 CYS A	596	
SSBOND SSBOND	21 CYS A 612 CYS A 22 CYS A 446 CYS A	600 475	
SSBOND	23 CYS A 482 CYS A	491	
SSBOND	24 CYS A 199 CYS A	191	
SSBOND	25 CYS C 88 CYS C	23	
SSBOND	26 CYS C 194 CYS C	134	
SSBOND	27 CYS D 95 CYS D	22	
SSBOND	28 CYS D 202 CYS D	146	
MODRES	NAG E 321 NAG-b-D		RENAME
MODRES	NAG E 322 NAG-b-D MAN E 323 MAN-b-D		RENAME RENAME
MODRES MODRES	MAN E 323 MAN-b-D MAN E 324 MAN-b-D		RENAME
MODRES	NAG E 3281 NAG-b-D		RENAME
MODRES	NAG E 3282 NAG-b-D		RENAME
MODRES	MAN E 3283 MAN-b-D		RENAME
MODRES	MAN E 3284 MAN-b-D		RENAME
MODRES	MAN E 3287 MAN-a-D		RENAME
MODRES	MAN E 3288 MAN-b-D		RENAME
MODRES	MAN E 3285 MAN-a-D		RENAME
MODRES	MAN E 3286 MAN-b-D MAN E 3289 MAN-a-D		RENAME RENAME
MODRES MODRES	MAN E 3289 MAN-a-D NAG E 3371 NAG-b-D		RENAME
MODRES	NAG E 3371 NAG-D-D		RENAME
MODRES	MAN E 3373 MAN-a-D		RENAME
MODRES	MAN E 3374 MAN-b-D		RENAME
MODRES	NAG E 3891 NAG-b-D		RENAME
MODRES	NAG E 3892 NAG-b-D		RENAME
MODRES	NAG E 4201 NAG-b-D		RENAME
MODRES	NAG E 4202 NAG-a-D		RENAME
MODRES	MAN E 4203 MAN-a-D		RENAME
MODRES	NAG E 5041 NAG-b-D		RENAME
MODRES	NAG E 5441 NAG-b-D		RENAME
MODRES MODRES	NAG E 5791 NAG-b-D NAG E 881 NAG-b-D		RENAME RENAME
CRYST1	77.823 70.861 147.12	22 90.00 102.48 90.00 P 1 21 1	MUMANIE
SCALE1	0.012850 0.000000		

SCALE2			0000		0.014			0.000		
SCALE3			0000		0.0000					N
MOTA	1	N	LEU		1	13.360	2.249	11.251 12.398	1.00100.92 1.00105.53	N C
ATOM	3	CA	LEU		1 1	12.773	1.470 0.248			C
MOTA	5	CB	LEU			11.965 10.656		11.865 12.561	1.00108.08	C
ATOM	8	CG CD1	LEU		1 1	9.579	-0.207 0.912	12.805	1.00114.07	C
MOTA	10		LEU LEU		1	10.023	-1.358	11.772	1.00118.27 1.00115.39	C
ATOM ATOM	14	CD2	LEU		1	13.923	1.032	13.354	1.00113.39	C
ATOM	18 19	0	LEU		1	13.923	1.330	14.572	1.00105.39	0
MOTA	22	N	GLU		. 2	14.904	0.333	12.772	1.00 98.75	И
ATOM	24	CA	GLU		2	16.143	-0.038	13.449	1.00 95.06	C
ATOM	26	CB	GLU		2	16.981	-0.917	12.518	1.00 90.85	C
ATOM	29	CG	GLU		2	18.025	-1.714	13.253	1.00 89.57	Ċ
ATOM	32	CD	GLU		2	19.160	-2.205	12.358	1.00 88.28	Ċ
ATOM	33		GLU		2	19.720	-1.403	11.495	1.00 84.21	0
ATOM	34		GLU		2	19.493	-3.427	12.562	1.00 89.66	0
ATOM	35	C	GLU	A	2	16.965	1.207	13.819	1.00 92.58	C
MOTA	36	0	GLU	Α	2	17.201	2.090	12.955	1.00 90.00	O
ATOM	37	N	GLU	Α	3	17.396	1.261	15.096	1.00 93.29	N
MOTA	39	CA	GLU	Α	3	18.416	2.250	15.593	1.00 90.23	C
ATOM	41	СВ	GLU	Α	3	18.082	2.630	17.081	1.00 94.21	C
MOTA	44	CG	GLU	A	3	16.599	3.021	17.380	1.00100.00	C
MOTA	47	CD	GLU		3	16.165	2.910	18.872	1.00105.60	C
ATOM	48		GLU		3	16.983	2.478	19.722	1.00104.83	0
ATOM	49		GLU		3	14.991	3.253	19.229	1.00109.98	0
MOTA	50	C	GLU		3	19.925	1.714	15.412	1.00 84.70	С
ATOM	51	0	GLU		3	20.405	0.936	16.274	1.00 85.80	0
MOTA	52	N	LYS		4	20.618	2.086	14.305	1.00 79.39	N
MOTA	54	CA	LYS		4	21.994	1.608	13.949	1.00 74.36	C
ATOM	56	CB	LYS		4	22.472	2.211	12.626	1.00 70.99	C
ATOM	59	CG	LYS		4	21.654	1.834	11.436	1.00 73.21	C
ATOM	62	CD	LYS		4	22.526	1.263	10.289 9.254	1.00 71.25 1.00 75.31	C
ATOM ATOM	65 68	CE	LYS LYS		4 4	21.667 21.491	0.401 1.128	7.883	1.00 75.31	И
ATOM	72	C	LYS		4	23.090	2.043	14.898	1.00 76.48	C
ATOM	73	0	LYS		4	23.169	3.249	15.216	1.00 72.83	0
MOTA	74	N	LYS		5	24.009	1.129	15.248	1.00 70.16	N
ATOM	76	CA	LYS		5	24.974	1.410	16.328	1.00 68.70	C
ATOM	78	CB	LYS		5	25.338	0.124	17.092	1.00 69.57	c
ATOM	81	CG	LYS		5	24.052	-0.768	17.413	1.00 75.20	С
MOTA	84	CD	LYS		5	23.641	-0.893	18.917	1.00 79.29	С
MOTA	87	CE	LYS		5	22.196	-0.390	19.171	1.00 83.67	C
ATOM	90	NZ	LYS	Α	5	21.488	-1.198	20.194	1.00 91.94	N
ATOM	94	С	LYS	Α	5	26.206	2.153	15.828	1.00 64.30	C
MOTA	95	0	LYS	A	5	26.682	1.926	14.749	1.00 61.85	0
ATOM	96	N	VAL	A	6	26.724	3.047	16.647	1.00 64.34	N
MOTA	98	CA	VAL	A	6	27.596	4.114	16.203	1.00 61.78	C
	100	CB	VAL		6	26.890	5.440	16.468	1.00 63.52	C
	102		VAL		6	27.642	6.564	15.784	1.00 61.56	С
	106		VAL		6	25.473	5.382	15.997	1.00 66.36	C
ATOM	110	C	VAL		6	28.801	4.255	17.058	1.00 61.00	C
	111	0	VAL		6	28.640	4.254	18.203	1.00 63.87	0
MOTA	112	N C7	CYS		7	29.982	4.525	16.546	1.00 58.45	N
	114	CA	CYS		7	31.094	4.807	17.432	1.00 59.36 1.00 57.65	C
	116	CB	CYS		7	31.943	3.561	17.567		C S
	119 120	SG C	CYS CYS		7 7	32.512 31.926	2.903 5.983	16.006 16.972	1.00 58.73 1.00 58.39	C
	121	0	CYS		7	31.955	6.264	15.829	1.00 57.51	0
	122	N	GLN		8	32.585	6.702	17.874	1.00 61.38	N
	124	CA	GLN		8	33.635	7.683	17.502	1.00 61.54	C
	126	CB	GLN		8	34.054	8.482	18.741	1.00 63.20	Č
	129	CG	GLN		8	32.927	9.373	19.254	1.00 67.39	Ċ
ATOM	132	CD	GLN		8	32.574	10.563	18.334	1.00 70.24	Ċ
	133		GLN		8	33.273	10.818	17.335	1.00 70.24	Ō
	134	NE2	GLN		8	31.479	11.300	18.673	1.00 75.33	N
	137	C	GLN		8	34.857	6.935	16.978	1.00 60.56	C
MOTA	138	0	GLN	A	8	35.205	5.857	17.449	1.00 63.77	0

				_							
MOTA	139	N	GLY		9	35.579	7.394	16.026	T.00	58.91	N
ATOM	141	CA	${ t GLY}$	Α	9	36.720	6.527	15.726	1.00	57.92	C
ATOM	144	С	GLY	Ά	9	38.036	7.249	15.990	1.00	60.20	C
ATOM	145	Ö	GLY		9	38.259	8.517	15.590	1.00	64.00	Ō
MOTA	146	N	THR	А	10	38.926	6.543	16.652		59.60	N
ATOM	148	ca	THR	Α	10	40.369	6.891	16.558	1.00	60.20	C
ATOM	150	CB	THR	A	10	41.078	5.669	16.340	1.00	59.09	C
ATOM	152		THR		10	40.256	4.658	16.885		66.90	Ō
ATOM	154	CG2	THR	Α	10	42.281	5.634	17.296		61.60	C
ATOM	158	С	THR	A	10	40.998	7.884	15.538	1.00	57.46	C
ATOM	159	0	THR	A	10	40.657	7.865	14.372	1.00	55.26	0
ATOM	160	N	SER		11		8.692			57.21	N
						41.945		16.037			
ATOM	162	CA	SER	А	11	42.838	9.479	15.220		56.01	С
ATOM	164	CB	SER	Α	11	42.438	10.930	15.303	1.00	58.10	C
ATOM	167	OG	SER	Α	11	41.073	11.006	15.003	1.00	58.88	0
ATOM	169	C	SER		11	44.237	9.330	15.720		56.12	C
ATOM	170	O	SER	Α	11	44.916	10.266	16.008	1.00	56.39	0
ATOM	171	N	ASN	A	12	44.687	8.118	15.834	1.00	55.44	N
ATOM	173	CA	ASN	Α	12	46.051	7.926	16.295	1.00	58.03	C
ATOM	175	CB	ASN		12	46.089	6.865	17.413		58.48	C
MOTA	178	CG	ASN		12	44.886	6.955	18.346		59.19	C
ATOM	179	OD1	ASN	A	12	44.347	8.062	18.563	1.00	59.90	0
ATOM	180	ND2	ASN	Α	12	44.426	5.784	18.880	1.00	56.12	N
MOTA	183	С	ASN		12	47.084	7.624	15.172		57.48	С
MOTA	184	0	ASN		12	48.285	7.497	15.459		60.22	0
MOTA	185	И	LYS	Α	13	46.655	7.497	13.923	1.00	54.67	N
ATOM	187	CA	LYS	Α	13	47.614	7.192	12.876	1.00	55.14	C
ATOM	189	CB	LYS	Α	13	48.381	8.476	12.501	1.00	57.96	C
MOTA	192	CG	LYS		13	47,420	9.634	12.179		57.91	c
ATOM	195	CD	LYS		13	48.048	10.642	11.298		60.41	С
ATOM	198	CE	LYS	A	13	47.075	11.808	10.983	1.00	63.26	C
ATOM	201	NZ	LYS	Α	13	47.797	13.059	10.472	1.00	67.44	N
MOTA	205	С	LYS	Α	13	48.582	6.093	13.297	1.00	56.16	С
ATOM	206	0	LYS		13	48.171	4.995	13.766		56.29	0
ATOM	207	И	LEU		14	49.880	6.360	13.196		57.76	И
MOTA	209	CA	$_{ m LEU}$	Α	14	50.813	5.266	13.406	1.00	57.81	С
MOTA	211	CB	LEU	A	14	51.985	5.375	12.424	1.00	58.72	C
ATOM	214	CG	LEU	Z	14	51.524	5.396	10.955	1.00	56.05	C
ATOM	216		LEU		14	52.683	5.353	9.975		57.66	Č
MOTA	220		LEU		14	50.536	4.287	10.645		53.10	С
MOTA	224	С	$_{ m LEU}$	Α	14	51.243	5.154	14.855	1.00	60.01	C
MOTA	225	0	LEU	A	14	52.038	4.261	15.187	1.00	61.31	0
ATOM	226	N	THR		15	50.731	6.037	15.716		60.49	И
	228	CA			15						C
ATOM			THR			50.925	5.854	17.142		63.51	
MOTA	230	CB	THR	А	15	50.300	6.950	17.944	1.00	64.28	C
MOTA	232	OG1	THR	Α	15	50.825	8.199	17.543	1.00	65.35	0
MOTA	234	CG2	THR	A	15	50.791	6.867	19.429	1.00	69.05	C
ATOM	238	C	THR		15	50.397	4.495	17.648		63.38	C
MOTA	239	0	THR		15	49.322	4.011	17.232		61.95	0
MOTA	240	N	GLN	А	16	51.190	3.874	18.517	1.00	66.09	N
MOTA	242	CA	GLN	Α	16	50.868	2.561	19.107	1.00	66.17	C
ATOM	244	CB	GLN	Α	16	52.007	1.560	18.862	1.00	67.19	C
ATOM	247	CG	GLN		16	51.728	0.217	19.455		66.47	C
											"
ATOM	250	CD	GLN		16	52.838	-0.766	19.295		66.59	C
ATOM	251	OEI	GLN	Α	16	53.535	-0.791	18.274	1.00	64.81	0
MOTA	252	NE2	GLN	A	16	52.984	-1.624	20.293	1.00	68.23	N
MOTA	255	С	GLN	A	16	50.617	2.737	20.632	1.00	69.21	C
ATOM	256	Ö	GLN		16	51.390	3.422	21.325		73.28	Ö
MOTA	257	N	LEU		17	49.533	2.144	21.148		67.72	N
ATOM	259	CA	LEU	Α	17	49.033	2.455	22.486	1.00	69.49	C
ATOM	261	CB	LEU	A	17	47.504	2.620	22.478	1.00	67.31	С
ATOM	264	CG	LEU		17	46.923	3.591	21.437		64.82	C
ATOM	266		LEU		17	45.375	3.565	21.397		62.29	C
MOTA	270		LEU		17	47.487	5.032	21.639		66.62	С
ATOM	274	C	LEU	A	17	49.450	1.295	23.363	1.00	71.74	C
MOTA	275	0	LEU	Α	17	48.609	0.497	23.794	1.00	71.04	0
ATOM	276	N	GLY		18	50.764	1.193	23.572		73.66	И
											C
ATOM	278	CA	GLY	1-1	18	51.329	0.265	24.520	T.00	76.87	C

ATOM	281	С	GLY	A	18	51.609	-1.038	23.830	1.00	75.65	C
ATOM	282	Ō	GLY		18	51.968	-1.022	22.636		72.82	0
ATOM	283	N	THR		19	51.451	-2.140	24.593		77.55	N
MOTA	285	CA	THR		19	51.581	-3.516	24.099		76.35	C
MOTA	287	CB	THR		19	51.171	-4.562	25.154		79.33	C
MOTA	289	OG1	THR	A	19	51.943	-4.422	26.343		83.29	0
MOTA	291	CG2	THR	Α	19	51.574	-5.993	24.734	1.00	82.13	C
ATOM	295	С	THR	A	19	50.703	-3.715	22.916	1.00	71.66	С
MOTA	296	0	THR	A	19	49.617	-3.221	22.854	1.00	69.09	0
MOTA	297	N	PHE		20	51.211	-4.445	21.952	1.00	71.13	N
MOTA	299	CA	PHE		20	50.404	-4.916	20.873		68.02	C
		CB	PHE		20	51.089	-6.099	20.219		69.47	C
ATOM	301										
ATOM	304	CG	PHE		20	52.300	-5.752	19.353		70.89	C
MOTA	305		PHE		20	53.413	-6.599	19.350		74.82	C
MOTA	307	CE1	$_{ m PHE}$	A	20	54.500	-6.334	18.562	1.00	76.46	C
ATOM	309	CZ	PHE	Α	20	54.491	-5.207	17.726	1.00	74.93	C
MOTA	311	CE2	PHE	A	20	53.391	-4.360	17.707	1.00	69.96	C
ATOM	313	CD2	PHE	Α	20	52.303	-4.641	18.517	1.00	69.30	C
ATOM	315	С	PHE		20	49.083	-5.409	21.417		67.44	C
MOTA	316	ō	PHE		20	48.034	-5.063	20.903		63.96	0
MOTA	317		GLU		21	49.124	-6.245	22.449		71.20	N
		N								71.20	
MOTA	319	CA	GLU		21	47.872	-6.628	23.125			C
ATOM	321	CB	GLU		21	48.020	-7.643	24.239		75.53	C
MOTA	324	CG	GLU	A	21	46.614	-8.017	24.681		77.19	C
MOTA	327	CD	GLU	А	21	46.443	-9.456	25.095	1.00	84.24	C
MOTA	328	OE1	GLU	A	21	46.760	-9.761	26.300	1.00	86.94	0
MOTA	329	OE2	GLU	A	21	45.962	-10.251	24.217	1.00	85.07	0
MOTA	330	С	GLU	A	21	47.004	-5.473	23.632	1.00	71.25	C
ATOM	331	0	GLU		21	45.855	-5.383	23.189	1.00	69.23	0
MOTA	332	N	ASP		22	47.496	-4.605	24.525		73.11	N
MOTA	334	CA	ASP		22	46.671	-3.422	24.914		72.68	C
											C
ATOM	336	CB	ASP		22	47.456	-2.386	25.699		75.14	
MOTA	339	CG	ASP		22	48.062	-2.919	26.931		79.93	C
MOTA	340		ASP		22	47.490	-3.833	27.552		82.29	0
MOTA	341	OD2	ASP	A	22	49.142	-2.460	27.345	1.00	83.24	0
MOTA	342	С	ASP	A	22	46.054	-2.652	23.717	1.00	68.07	C
MOTA	343	0	ASP	A	22	44.945	-2.133	23.790	1.00	67.64	0
MOTA	344	N	HIS	Α	23	46.807	-2.553	22.638	1.00	65.04	N
ATOM	346	CA	HIS		23	46.409	-1.772	21.532		61.33	C
MOTA	348	CB	HIS		23	47.586	-1.723	20.576		60.16	Ċ
ATOM	351	CG	HIS		23	47.430	-0.802	19.398		57.41	Č
	352		HIS		23	47.673	0.552	19.463		58.45	N
MOTA											
MOTA	354		HIS		23	47.519	1.098	18.275		53.82	C
ATOM	356		HIS		23	47.197	0.141	17.433		55.61	N
MOTA	358		HIS		23	47.171	-1.062	18.100		54.92	С
ATOM	360	С	\mathtt{HIS}	A	23	45.178	-2.497	21.012		59.61	С
MOTA	361	0	\mathtt{HIS}	Α	23	44.118	-1.917	20.865	1.00	59.40	0
MOTA	362	N	PHE	Α	24	45.286	-3.789	20.800	1.00	59.94	N
MOTA	364	CA	PHE	Α	24	44.165	-4.543	20.272	1.00	58.09	C
ATOM	366	CB	PHE		24	44.597	-5.974	19.965	1.00	58.40	C
MOTA	369	CG	PHE		24	43.471	-6.884	19.627		56.74	С
ATOM	370		PHE		24	43.023	-6.988	18.340		54.72	C
											C
ATOM	372		PHE		24	41.961	-7.863	18.065		55.93	
MOTA	374	CZ	PHE		24	41.358	-8.614	19.113		55.91	С
MOTA	376		PHE		24	41.803	-8.486	20.339		56.90	C
MOTA	378	CD2	PHE	А	24	42.844	-7.634	20.609	1.00	56.82	C
ATOM	380	С	PHE	Α	24	42.939	-4.503	21.203	1.00	59.52	C
MOTA	381	0	PHE	Α	24	41.843	-4.307	20.754	1.00	58.02	0
MOTA	382	N	LEU		25	43.108	-4.645	22.501	1.00	63.07	N
MOTA	384	CA	LEU		25	41.933	-4.666	23.381		65.30	C
ATOM	386	CB	LEU		25	42.314	-4.821	24.840		68.45	Ċ
ATOM	389	CG	LEU		25	43.082	-6.114	25.072		72.33	C
ATOM	391		LEU		25	43.607	-6.190	26.513		78.48	C
MOTA	395		LEU		25	42.279	-7.433	24.705		72.81	C
MOTA	399	С	LEU		25	41.117	-3.401	23.190		64.01	C
MOTA	400	0	LEU	A	25	39.876	-3.424	23.279	1.00	63.70	0
ATOM	401	N	SER	Α	26	41.826	-2.309	22.885	1.00	63.31	N
MOTA	403	CA	SER	A	26	41.237	-0.975	22.871	1.00	63.14	C

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ATOM	405	CB	SER		26	42.233	0.064	23.416		64.86	C
ATOM	408	OG	SER	A	26	42.684	0.916	22.406	1.00	65.68	0
ATOM	410	С	SER	A	26	40.693	-0.634	21.502	1.00	59.23	C
ATOM	411	0	SER	A	26	39.666	0.067	21.392	1.00	58.89	0
ATOM	412	N	LEU	Δ	27	41.375	-1.155	20.478	1.00	56.73	N
ATOM	414	CA	LEU		27	40.789	-1.286	19.177		53.81	C
											Č
ATOM	416	CB	LEU		27	41.575	-2.211	18.289		52.35	
ATOM	419	CG	LEU	A	27	41.132	-2.136	16.819	1.00	49.44	C
ATOM	421	CD1	LEU	A	27	41.376	-0.797	16.298	1.00	46.75	C
ATOM	425	CD2	LEU	Α	27	41.881	-3.150	15.889	1.00	49.11	C
ATOM	429	С	LEU		27	39.461	-1.911	19.358		54.56	С
ATOM	430	0	LEU		27	38.466	-1.407	18.837		55.41	0
ATOM	431	N	GLN		28	39.456	-3.009	20.096		55.62	N
ATOM	433	CA	GLN	Α	28	38.281	-3.800	20.297	1.00	56.39	С
ATOM	435	CB	GLN	A	28	38.618	-5.091	21.063	1.00	59.09	C
ATOM	438	CG	GLN	A	28	37.773	-6.291	20.641	1.00	60.00	C
ATOM	441	CD	GLN		28	38.007	-7.567	21.488	1.00	64.33	С
ATOM	442	OE1	GLN		28	38.723	-7.563	22.480		64.48	0
ATOM	443	NE2	GLN		28	37.405	-8.649	21.059		65.54	N
ATOM	446	C	GLN	A	28	37.210	-3.034	21.026		57.59	С
ATOM	447	0	GLN	A	28	36.029	-3.157	20.656	1.00	57.19	0
ATOM	448	N	ARG	A	29	37.594	-2.271	22.063	1.00	59.69	И
ATOM	450	CA	ARG		29	36.584	-1.653	22.971	1.00	62.22	С
ATOM	452	CB	ARG		29	37.133	-1.079	24.311		64.71	c
ATOM	461	C	ARG		29	35.845	-0.627	22.145		60.09	C
ATOM	462	0	ARG		29	34.649	-0.509	22.287		61.92	0
ATOM	463	N	MET	Α	30	36.547	0.031	21.226	1.00	57.09	N
ATOM	465	CA	MET	Α	30	35.975	1.057	20.390	1.00	55.26	C
ATOM	467	CB	MET	Α	30	37.106	1.794	19.716	1,00	53.16	C
ATOM	470	CG	MET		30	36.722	2.870	18.699		51.84	Ċ
					30			19.326		54.54	S
ATOM	473	SD	MET			35.550	4.071				
ATOM	474	CE	MET		30	36.573	5.055	20.420		55.60	C
ATOM	478	С	MET	Α	30	35.059	0.480	19.332	1.00	53.92	C
ATOM	479	0	MET	Α	30	33.907	0.863	19.200	1.00	55.74	0
ATOM	480	N	PHE	A	31	35.550	-0.468	18.559	1.00	52.04	N
ATOM	482	CA	PHE		31	34.781	-0.943	17.430		49.68	С
ATOM	484	CB	PHE		31	35.756	-1.193	16.273		47.66	c
								15.783			Č
ATOM	487	CG	PHE		31	36.433	0.085			46.71	
ATOM	488		PHE		31	37.781	0.305	15.979		46.45	C
ATOM	490	CE1	PHE	A	31	38.321	1.541	15.566	1.00	47.62	С
ATOM	492	CZ	PHE	A	31	37.509	2.502	14.959	1.00	44.30	C
ATOM	494	CE2	PHE	Α	31	36.194	2.278	14.788	1.00	42.28	C
ATOM	496	CD2	PHE	Д	31	35.663	1.104	15.190	1.00	44.72	С
ATOM	498	C	PHE		31	33.789	-2.089	17.673		50.47	C
ATOM	499	0	PHE		31	33.081	-2.417	16.777		48.38	0
ATOM	500	N	ASN		32	33.613	-2.585	18.890		53.44	N
ATOM	502	$^{\mathrm{CA}}$	ASN	A	32	32.885	-3.794	19.024		56.24	С
ATOM	504	CB	ASN	A	32	32.747	-4.260	20.430	1.00	59.73	C
ATOM	507	CG	ASN	A	32	32.163	-5.711	20.520	1.00	62.37	C
ATOM	508		ASN		32	32.440	-6.605	19.743		58.57	0
ATOM	509		ASN		32	31.353	-5.911	21.504		72.53	N
										58.05	C
ATOM	512	C	ASN		32	31.558	-3.958	18.295			
ATOM	513	0	ASN		32	31.416	-4.866	17.436		59.26	0
MOTA	514	N	ASN	Α	33	30.525	-3.217	18.586	1.00	60.46	И
ATOM	516	CA	ASN	A	33	29.286	-3.562	17.838	1.00	61.41	C
ATOM	518	CB	ASN	A	33	28.089	-3.573	18.789	1.00	65.21	C
ATOM	521	CG	ASN		33	28.127	-4.776	19.664	1.00	67.90	С
ATOM	522		ASN		33	28.491	-5.890	19.232		63.09	Ō
ATOM	523		ASN		33	27.793	-4.578	20.898		73.36	N
ATOM	526	С	ASN		33	29.053	-2.692	16.659		59.01	C
ATOM	527	0	ASN	A	33	27.930	-2.561	16.195	1.00	60.95	0
ATOM	528	N	CYS	A	34	30.114	-2.094	16.167	1.00	55.98	N
ATOM	530	CA	CYS		34	29.963	-0.850	15.449		55.77	С
ATOM	532	CB	CYS		34	31.281	-0.106	15.502		54.43	c
		SG	CYS		34	31.232	1.564	14.851		57.88	s
ATOM	535										C
ATOM	536	C	CYS		34	29.476	-0.995	13.995		54.12	
ATOM	537	0	CYS		34	30.046	-1.728	13.154		52.55	0
ATOM	538	N	GLU	A	35	28.408	-0.279	13.701	T.00	54.92	И

ATOM	540	CA	GLU	Α	35	27.854	-0.268	12.353	1.00 54.01	. с
ATOM	542	CB	GLU		35	26.296		12.423	1.00 57.63	
ATOM	545	CG	GLU	Α.	35	25.807	-1.904	12.595	1.00 60.04	C
MOTA	548	CD	GLU		35	24.265	-2.089	12.755	1.00 66.48	C
MOTA	549	OE1			35	23.430	-1.283	12.291	1.00 69.81	
MOTA	550	OE2			35	23.846		13.360	1.00 69.46	
ATOM	551	C	GLU		35	28.366		11.531	1.00 50.84	
ATOM ATOM	552 553	N O	GLU VAL		35 36	28.835 28.298	0.861 2.154	10.394 12.164	1.00 47.39 1.00 51.35	
ATOM	555	CA	VAL		36	28.759	3.440	11.634	1.00 31.33	
ATOM	557	CB	VAL		36	27.613	4.468	11.651	1.00 52.18	
MOTA	559		VAL		36	28.075	5.785	11.084	1.00 50.62	
MOTA	563	CG2	VAL	A	36	26.441	3.964	10.857	1.00 53.96	
MOTA	567	C	VAL	Α	36	29.898	4.062	12.454	1.00 48.86	C
MOTA	568	0	VAL		36	29.810	4.215	13.664	1.00 50.58	
ATOM	569	N	VAL		37	30.955	4.440	11.786	1.00 46.36	
ATOM	571	CA	VAL		37	32.030	5.169	12.417	1.00 46.84	
ATOM ATOM	573 575	CB CG1	VAL VAL		37 37	33.361	4.637	11.878	1.00 44.64	
ATOM	579		VAL		37	34.537 33.372	5.214 3.171	12.638 11.950	1.00 45.69 1.00 43.09	
ATOM	583	C	VAL		37	31.876	6.682	12.091	1.00 47.84	
ATOM	584	Õ	VAL		37	32.128	7.150	10.959	1.00 47.48	
MOTA	585	N	LEU		38	31.406	7.446	13.057	1.00 49.78	
MOTA	587	CA	LEU	Α	38	31.412	8.917	12.977	1.00 50.77	C
ATOM	589	CB	LEU	Α	38	31.068	9.494	14.341	1.00 53.03	C
MOTA	592	CG	LEU		38	29.739	9.093	14.919	1.00 54.79	
MOTA	594		LEU		38	29.401	10.042	16.017	1.00 57.99	
ATOM	598		LEU		38	28.708	9.110	13.851	1.00 54.29	
ATOM	602	C	LEU		38	32.752	9.540	12.550	1.00 49.42	
ATOM ATOM	603 604	O N	LEU GLY		38 39	32.748 33.862	10.523	11.843	1.00 50.78	
ATOM	606	CA	GLY		39	35.219	8.991 9.454	13.049 12.840	1.00 48.45 1.00 47.35	
ATOM	609	C	GLY		39	35.961	8.563	11.878	1.00 47.33	
ATOM	610	o	GLY		39	35.409	8.141	10.867	1.00 45.58	ő
ATOM	611	N	ASN		40	37.225	8.286	12.136	1.00 44.47	N
ATOM	613	CA	ASN	Α	40	37.921	7.385	11.256	1.00 42.80	C
ATOM	615	CB	ASN	A	40	39.282	7.891	10.781	1.00 43.45	C
MOTA	618	CG	ASN		40	39.429	9.389	10.797	1.00 44.32	C
ATOM	619		ASN		40	38.929	10.062	9.935	1.00 45.99	0
ATOM	620		ASN		40	40.205	9.897	11.734	1.00 44.54	N
ATOM ATOM	623 624	C 0	ASN ASN		40 40	38.159 38.211	6.049 5.931	11.918 13.148	1.00 42.57 1.00 44.09	C
ATOM	625	N	LEU		41	38.390	5.082	11.046	1.00 44.09	
ATOM	627	CA	LEU		41	38.610	3.727	11.369	1.00 40.75	C
ATOM	629	CB	LEU		41	37.822	2.850	10.400	1.00 39.36	C
ATOM	632	CG	LEU	A	41	38.090	1.346	10.561	1.00 40.49	С
ATOM	634	CD1	LEU	A	41	37.763	0.779	11.990	1.00 44.00	C
ATOM	638		LEU		41	37.247	0.567	9.646	1.00 41.86	C
ATOM	642	С	LEU		41	40.058	3.488	11.150	1.00 40.97	С
ATOM	643	0	LEU		41	40.525	3.672	10.045	1.00 41.21	0
ATOM	644	N C7	GLU		42	40.785	3.046	12.166	1.00 42.33	N
ATOM ATOM	646 648	CA CB	GLU GLU		42 42	42.201 43.020	2.775 3.721	12.003 12.808	1.00 42.70 1.00 44.36	C
ATOM	651	CG	GLU		42	42.695	5.159	12.455	1.00 47.91	C
ATOM	654	CD	GLU		42	43.418	6.201	13.308	1.00 51.77	C
ATOM	655		GLU		42	43.332	6.066	14.581	1.00 51.29	Ō
MOTA	656		GLU		42	44.027	7.154	12.688	1.00 51.12	0
ATOM	657	С	GLU	Α	42	42.486	1.426	12.488	1.00 43.28	С
MOTA	658	0	GLU		42	42.282	1.164	13.667	1.00 45.62	0
ATOM	659	N	ILE		43	42.979	0.557	11.605	1.00 42.12	N
ATOM	661	CA	ILE		43	43.421	-0.746	12.046	1.00 42.21	C
ATOM	663	CB	ILE		43	42.633	-1.771	11.341	1.00 40.74	C
ATOM	665 668 ·	CG1	ILE		43	41.166	-1.548	11.668	1.00 39.80	C
ATOM ATOM	668 ⁻ 672		ITE		43 43	40.301 43.052	-1.940 -3.107	10.641 11.840	1.00 39.39 1.00 43.58	C C
ATOM	676	C	ILE		43	44.919	-0.912	11.876	1.00 43.38	C
ATOM	677	0	ILE		43	45.477	-0.694	10.858	1.00 42.70	0
ATOM	678	N	THR		44	45.555	-1.355	12.916	1.00 44.98	И

ATOM	680	CA	THR	Α	44	46.888 -0.	.922	13.235	1.00	46.86	C
					4.4						
ATOM	682	CB	THR		44	46.703 0.	.473	13.748		47.31	С
ATOM	684	OG1	\mathbf{T}_{HR}	A	44	46.847 1.	.369	12.637	1.00	48.62	0
A COM					44				1 00	10 26	C
ATOM	686	CG2	THR	А	44		.877	14.643	T.00	49.36	С
ATOM	690	С	THR	Α	44	47.609 -1.	.798	14.277	1.00	49.13	C
ATOM	691	0	THR	7\	44	47.102 -2.	.055	15.380	1 00	49.25	0
ATOM	692	N	TYR	Α	45	48.794 - 2.	.258	13.899	1.00	50.28	N
ATOM	694	CA	TYR	Z\	45	49.613 -3.	.069	14.773	1 00	52.93	С
ATOM	696	CB	TYR	A	45	50.095 -2.	.247	15.992	1.00	55.11	C
MOTA	699	CG	TYR	Z \	45	50.992 -1.	.106	15.593	1 00	55.23	C
ATOM	700	CD1	TYR	А	45	50.530 0.	.165	15.617	T.00	54.89	С
ATOM	702	CE1	TYR	A	45	51.299 1.	. 209	15.259	1.00	54.93	С
										56.32	
ATOM	704	CZ	TYR		45		. 999	14.808			С
MOTA	705	OH	TYR	\mathbf{A}	45	53.273 2.	.109	14.459	1.00	62.09	0
ATOM	707	CE2	TYR	Ζ.	45	53.066 -0.	.250	14.754	1 00	56.10	C
ATOM	709	CDZ	TYR	Α	45	52.279 -1.	.306	15.143	1.00	56.61	C
ATOM	711	C	TYR	A	45	48.946 -4.	. 393	15.189	1.00	53.13	C
ATOM	712	0	TYR		45		.102	16.030	1.00	56.05	0
MOTA	713	N	VAL	A	46	47.843 -4.	.775	14.559	1.00	50.80	N
ATOM	715	CA	VAL	7\	46	47.215 -6.	.039	14.908	1 00	51.76	С
MOTA	717	CB	VAL	Α	46	45.861 -6.	. 206	14.238	1.00	49.39	C
ATOM	719	CG1	VAL	A	46	45.204 -7.	.480	14.608	1.00	50.02	C
ATOM	723	CGZ	VAL	Α	46	44.963 -5.	.087	14.699	T • 00	51.23	С
ATOM	727	С	VAL	A	46	48.118 -7.	. 153	14.509	1.00	53.22	C
	728				46		.203				
ATOM		0	VAL	А				13.361		53.23	0
ATOM	729	N	$_{ m GLN}$	Α	47	48.430 -8.	.050	15.436	1.00	56.14	N
MOTA	731	CA	GLN	Δ	47	49.344 -9.	. 151	15.162	1 00	59.49	C
ATOM	733	CB	GLN	Α	47	50.283 -9.	.340	16.373	1.00	63.39	C
MOTA	736	CG	GLN	A	47	51.212 -8.	.130	16.701	1.00	64.49	C
MOTA	739	CD	GLN		47		.834	15.592		64.62	С
MOTA	740	0E1	GLN	A	47	52.947 -8.	.741	15.096	1.00	64.30	0
MOTA	741	ME 2	GLN	27	47	52.335 -6.	.564	15.191	1 00	65.38	N
ATOM	744	С	GLN	Α	47	48.684 -10.	.517	14.730	1.00	60.25	С
ATOM	745	0	GLN	A	47	47.461 -10.	670	14.710	1.00	59.39	0
MOTA	746	N	ARG	А	48	49.500 -11.		14.381	T.00	62.64	N
MOTA	748	CA	ARG	A	48	48.950 -12.	.787	13.940	1.00	64.49	C
MOTA	750	CB	ARG	71	48	50.048 -13.	700	13.534	1 00	67.77	C
ATOM	753	CG	ARG	Α	48	50.278 -13.	. 822	12.038	1.00	68.04	C
ATOM	756	CD	ARG	Z\	48	51.286 -14.	816	11.673	1.00	74.89	С
MOTA	759	NE	ARG	Α	48	50.712 - 15.		10.921	T.00	78.86	N
ATOM	761	CZ	ARG	A	48	50.734 - 17.	.271	11.322	1.00	76.74	C
ATOM	762	NIH 1	ARG		48	51.286 -17.	601	12.474	1 00	78.50	N
MOTA	765	NH2	ARG	Α	48	50.196 -18.	.159	10.526	1.00	78.65	N
ATOM	768	С	ARG	Д	48	48.077 -13.	463	14.977	1.00	65.82	C
ATOM	769	0	ARG	A	48	48.387 -13.	.433	16.148	T-00	69.06	0
ATOM	770	N	ASN	A	49	47.020 -14.	.120	14.508	1.00	64.58	N
ATOM	772	CA	ASN	70	49	46.070 -14.	967	15.340	1 00	65.41	C
ATOM	774	CB	ASN	A.	49	46.724 -16.	.066	16.015	1.00	69.43	C
MOTA	777	CG	ASN	Z A	49	47.310 -16.	988	15.043	1.00	70.04	C
			ASN								
ATOM	778				49	46.635 -17.		14.102		68.58	0
ATOM	779	ND2	ASN	A	49	48.587 - 17.	.271	15.207	1.00	73.31	N
MOTA	782	С	ASN	Z	49	45.334 -14.	079	16.368	1 00	64.69	C
ATOM	783	0	ASN	A	49	44.878 -14.	. 646	17.355	1.00	66.94	0
ATOM	784	N	TYR	A	50	45.214 -12.	.785	16.166	1.00	61.48	N
		CA	TYR								
MOTA	786				50	44.278 - 12.		16.973		62.03	C
ATOM	788	CB	TYR	Α	50	44.795 - 10.	. 662	17.261	1.00	61.43	С
MOTA	791	CG	TYR		50	45.768 -10.		18.432	1.00	64.24	C
MOTA	792		TYR		50	47.030 -11.		18.363		65.32	C
MOTA	794	CE1	TYR	A	50	47.922 -10.	. 989	19.436	1.00	69.50	С
		CZ									Č
ATOM	796		TYR		50	47.553 -10.		20.561		70.19	
ATOM	797	OH	TYR	Α	50	48.425 -10.	.156	21.594	1.00	74.47	0
ATOM	799		TYR		50		.705	20.642		67.54	C
ATOM	801	CD2	TYR	Α	50	45.446 ~9.	.818	19.573	1.00	64.01	C
MOTA	000	С	TYR	Α	50	42.992 -11.	.996	16.156	1.00	59.86	C
	803	~									
	803	^	III 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2								
ATOM	804	0	TYR		50	43.082 -11.		15.011	1.00		0
		O N	TYR ASP		50 51	43.082 -11. 41.818 -12.		16.752		61.02	и
ATOM ATOM	804 805	N	ASP	A	51	41.818 -12.	.223	16.752	1.00	61.02	И
ATOM ATOM ATOM	804 805 807	n ca	ASP ASP	A A	51 51	41.818 -12. 40.540 -12.	.223 .225	16.752 16.037	1.00 1.00	61.02 59.60	и С
ATOM ATOM	804 805	N	ASP	A A	51	41.818 -12.	.223 .225	16.752	1.00 1.00	61.02	И

ATOM	812	CG	ASP	А	51	38.272 -	13.445	16.079	1.00 61.90	С
ATOM	813		ASP		51	38.043 -		14.914	1.00 53.66	Ö
ATOM	814		ASP		51	37.498 -		16.570	1.00 65.06	0
ATOM	815	C	ASP		51	40.013 -			1.00 57.33	C
ATOM	816	0	ASP		51	39.564 -		15.775 16.717		
									1.00 59.76	0
ATOM	817	N	LEU		52	39.985 -		14.519	1.00 54.26	N
ATOM	819	CA	LEU		52		-9.145	14.121	1.00 52.34	C
ATOM	821	CB	LEU		52		-8.415	13.029	1.00 49.67	С
ATOM	824	CG	LEU	Α	52	41.456	-7.893	13.423	1.00 50.34	С
ATOM	826	CD1	LEU	Α	52	42.092	-7.459	12.115	1.00 49.85	С
ATOM	830	CD2	LEU	A	52	41.305	-6.728	14.427	1.00 50.52	С
ATOM	834	С	LEU	Α	52	37.948	-9.321	13.542	1.00 51.96	С
ATOM	835	0	LEU	А	52		-8.450	12.848	1.00 50.66	0
MOTA	836	N	SER		53	37.293 -		13.864	1.00 54.16	N
ATOM	838	CA	SER		53	36.003 -		13.274	1.00 54.53	C
ATOM	840	CB	SER		53	35.526 -		13.555	1.00 56.90	C
ATOM	843	OG	SER		53	35.460 -		14.922		
									1.00 58.05	0
ATOM	845	C .	SER		53		-9.619	13.758	1.00 55.01	C
ATOM	846	0 .	SER		53		-9.595	13.168	1.00 56.80	0
MOTA	847	N	PHE		54		-8.820	14.802	1.00 54.98	N
MOTA	849	CA	PHE		54		-7.845	15.190	1.00 55.18	С
ATOM	851	CB	PHE		54		-7.156	16.478	1.00 55.26	C
MOTA	854	CG	$_{\mathrm{PHE}}$	Α	54	35.840	-6.619	16.535	1.00 53.23	С
ATOM	855	CD1	PHE	Α	54	36.104	-5.318	16.141	1.00 55.25	C
ATOM	857	CE1	PHE	Α	54	37.420	-4.754	16.207	1.00 53.92	С
ATOM	859	CZ	PHE	Α	54	38.446	-5.524	16.671	1.00 56.11	С
MOTA	861	CE2	PHE	A	54	38.166	-6.881	17.085	1.00 54.50	С
MOTA	863	CD2	PHE	A	54		-7.395	16.974	1.00 53.07	С
ATOM	865	С	PHE		54		-6.763	14.167	1.00 54.02	C
ATOM	866	0	PHE		54		-6.016	14.274	1.00 56.54	Ö
ATOM	867	N	LEU		55		-6.616	13.233	1.00 51.66	N
ATOM	869	CA	LEU		55		-5.672	12.103	1.00 48.92	C
ATOM	871	CB	LEU		55					
	874	CG					-5.550	11.426	1.00 46.55	C
ATOM			LEU		55		-5.064	12.318	1.00 46.74	C
ATOM	876		LEU		55		-5.184	11.621	1.00 45.91	C
ATOM	880		LEU		55		-3.616	12.600	1.00 47.82	C
MOTA	884	C	LEU		55		-6.095	10.989	1.00 48.78	С
MOTA	885	0	LEU		55		-5.390	9.989	1.00 49.08	0
ATOM	886	N	LYS		56		-7.274	11.090	1.00 50.51	N
ATOM	888	CA	LYS		56		-7.667	10.096	1.00 50.35	C
ATOM	890	CB	LYS	A	56	31.836	-9.114	10.238	1.00 52.48	С
MOTA	893	CG	LYS	A	56	32.973 -	10.132	10.110	1.00 53.73	С
MOTA	896	CD	LYS	A	56	32.484 -	11.607	9.798	1.00 58.55	C
ATOM	899	CE	LYS	A	56	33.628 -	12.680	9.390	1.00 59.21	C
MOTA	902	NZ	LYS	A	56	33.071 -	13.963	8.832	1.00 61.23	N
MOTA	906	С	LYS	A	56	31.048	-6.741	10.221	1.00 50.84	C
ATOM	907	0	LYS	A	56	30.296	-6.625	9.287	1.00 51.82	0
MOTA	908	N	THR		57		-6.036	11.339	1.00 51.04	N
ATOM	910	CA	THR		57		-5.205	11.583	1.00 52.25	C
MOTA	912	CB	THR		57		-4.985	13.031	1.00 53.38	C
ATOM	914		THR		57		-6.173	13.594	1.00 54.50	ō
ATOM	916		THR		57		-4.211	13.417	1.00 58.64	C
ATOM	920	C	THR		57		-3.823	10.876		C.
ATOM	921		THR						1.00 50.73	
		0			57		-3.142	10.690	1.00 50.93	0
ATOM	922	N	ILE		58		-3.412	10.510	1.00 48.03	И
MOTA	924	CA	ILE		58		-2.105	10.062	1.00 47.21	C
MOTA	926	CB	ILE		58		-1.755	10.092	1.00 45.62	C
ATOM	928		ILE		58		-1.611	11.543	1.00 47.30	С
ATOM	931		ILE		58		-1.176	11.687	1.00 48.07	С
ATOM	935		ILE		58		-0.361	9.424	1.00 45.43	С
MOTA	939	C	ILE	A	58	30.472	-1.946	8.683	1.00 46.76	С
MOTA	940	0	ILE	Α	58		-2.571	7.729	1.00 46.94	0
MOTA	941	N	GLN	A	59	29.457	-1.091	8.633	1.00 47.32	N
MOTA	943	CA	GLN	A	59		-0.744	7.433	1.00 46.32	С
ATOM	945	CB	GLN		59		-0.535	7.789	1.00 49.40	C
MOTA	948	CG	GLN		59		-1.801	7.748	1.00 50.88	C
ATOM	951	CD	GLN		59		-1.630	8.490	1.00 56.62	C
ATOM	952		GLN		59		-0.851	8.084	1.00 50.02	Ö
						2202	0.001	J. VJ.	01.1/	~

Z CHOM	0.5.2	NEO	CT N	7\	59	25.02	9 -2.319	9.621	1 00	62.39	N
MOTA	953		GLN								
MOTA	956	С	GLN		59	29.32		6.793		43.74	С
ATOM	957	0	GLN	Α	59	29.32	1 0.621	5.609	1.00	42.04	0
MOTA	958	N	GLU	Α	60	29.79	0 1.437	7.575	1.00	43.80	N
ATOM	960	CA	GLU	А	60	30.19	9 2.713	6.964	1.00	43.43	C
ATOM	962	CB	GLU		60	28.98		6.485		45.57	C
											Č
ATOM	965	CG	GLU		60	27.90		7.486		49.95	
ATOM	968	CD	GLU		60	26.78		6.943		55.76	C
ATOM	969	OE1	GLU	Α	60	25.74	7 4.155	6.484	1.00	53.00	0
MOTA	970	OE2	GLU	Α	60	26.93	3 6.058	7.002	1.00	55.62	0
ATOM	971	C	GLU		60	31.11		7.813		41.36	С
ATOM	972	Ö	GLU		60	31.06		8.959		41.52	Ō
ATOM	973	N	VAL		61	31.95		7.171		40.34	N
ATOM	975	CA	VAL	Α	61	32.95	5 5.212	7.787		40.06	C
ATOM	977	$^{\rm CB}$	VAL	Α	61	34.38	3 4.620	7.589	1.00	38.27	C
ATOM	979	CG1	VAL	A	61	35.47	9 5.597	8.136	1.00	38.94	C
ATOM	983	CG2	VAL	А	61	34.45	3 3.245	8.246	1.00	36.00	C
ATOM	987	C	VAL		61	32.89		7.263		41.13	C
ATOM	988	0	VAL		61	33.03		6.073		40.36	0
ATOM	989	N	ALA		62	32.71		8.167		43.43	N
ATOM	991	CA	ALA	Α	62	32.64	4 8.993	7.741	1.00	44.23	C
ATOM	993	CB	ALA	A	62	32.06	8 9.827	8.844	1.00	45.33	C
ATOM	997	С	ALA	А	62	34.00	0 9.548	7.301	1.00	42.41	C
ATOM	998	Ö	ALA		62	34.05		6.397		43.72	0
ATOM	999	N	GLY		63	35.06		7.984		41.42	N
ATOM		CA	GLY		63	36.33		7.875		41.84	C
MOTA	1004	С	GLY	Α	63	37.22	9.070	6.951	1.00	40.75	C
ATOM	1005	0	GLY	A	63	36.82	0 8.695	5.882	1.00	40.21	0
ATOM	1006	N	TYR	Α	64	38.42	5 8.717	7.359	1.00	40.83	И
ATOM		CA	TYR		64	39.18		6.561		39.12	C
ATOM		CB	TYR		64	40.55		6.344		40.77	Č
MOTA		CG	TYR		64	41.36		7.595		40.87	C
MOTA	1014	CD1	TYR	Α	64	42.18	2 7.617	8.184	1.00	42.70	С
ATOM	1016	CE1	TYR	Α	64	42.96	9 7.892	9.305	1.00	44.16	C
ATOM	1018	CZ	TYR	A	64	42.91	0 9.171	9.833	1.00	42.92	C
ATOM	1019	OH	TYR	Α	64	43.62	7 9.512	10.935	1.00	43.56	0
ATOM			TYR		64	42.09		9.279		43.84	C
								8.153		43.12	c
ATOM			TYR		64	41.35					
ATOM		C	TYR		64	39.32		7.210		39.09	C
ATOM	1026	0	TYR	Α	64	39.00		8.369	1.00	40.13	0
ATOM	1027	N	VAL	Α	65	39.83	3 5.469	6.425	1.00	37.79	N
ATOM	1029	CA	VAL	Α	65	40.16	5 4.157	6.845	1.00	37.58	C
MOTA	1031	CB	VAL	Α	65	39.45	1 3.155	5.959	1.00	36.44	C
ATOM			VAL		65	39.94		6.176		35.49	C
ATOM			VAL		65	38.02		6.276		38.10	Č
											C
MOTA		C	VAL		65	41.66		6.681		38.37	
MOTA		0	VAL	Α	65	42.16		5.579		38.62	0
MOTA	1043	N	LEU	Α	66	42.37	7 3.760	7.760	1.00	38.89	И
ATOM	1045	CA	LEU	Α	66	43.75	0 3.428	7.621	1.00	40.32	C
MOTA	1047	CB	LEU	Α	66	44.51	9 4.432	8.405	1.00	42.88	C
ATOM		CG	LEU		66	45.90		8.875		45.09	C
ATOM			LEU		66	46.82		7.728		44.69	Č
MOTA			LEU		66	46.37		9.836		48.02	C
MOTA		С	LEU		66	44.04		8.155		40.80	С
ATOM	1061	0	LEU	Α	66	43.83	2 1.757	9.314	1.00	42.77	0
MOTA	1062	N	ILE	Α	67	44.57	6 1.198	7.326	1.00	40.95	N
ATOM	1064	CA	ILE	Α	67	45.00	1 -0.132	7.747	1.00	40.61	C
MOTA		CB	ILE		67	44.32		6.861	1.00	39.42	C
ATOM			ILE		67	42.83		7.096		37.05	Č
ATOM			ILE		67	42.12		5.966		36.61	C
MOTA			ILE		67	44.84		7.132		42.01	C
MOTA	1079	С	ILE	Α	67	46.52	6 -0.226	7.596	1.00	42.09	C
ATOM	1080	0	ILE	Α	67	47.03	5 - 0.356	6.481	1.00	42.06	0
ATOM		N	ALA		68	47.25		8.693		43.71	И
ATOM		CA	ALA		68	48.69		8.634		46.04	C
ATOM		CB	ALA		68	49.23		8.518		46.74	C
ATOM		C	ALA		68	49.42		9.771		48.21	C
ATOM	T080	0	ALA	А	68	48.93	9 -1.126	10.901	T.00	47.90	0

ATOM 1091	N	LEU	A 69	50.59	7 -1.464	9.396	1.00 50.08	И
ATOM 1093	CA	LEU	A 69	51.54		10.292	1.00 52.36	С
ATOM 1095	CB	LEU	A 69	52.19	9 -1.127	11.234	1.00 53.98	С
ATOM 1098	CG	LEU	A 69	52.81	5 0.105	10.537	1.00 54.54	C
ATOM 1100	CD1	LEU	A 69	53.048	3 1.269	11.481	1.00 55.84	C
ATOM 1104	CD2	LEU	A 69	54.11	4 -0.210	9.926	1.00 56.72	C
ATOM 1108	С	LEU	A 69	50.91	7 -3.355	10.993	1.00 51.43	C
ATOM 1109	0	LEU	A 69	51.25	3 -3.718	12.102	1.00 52.82	0
ATOM 1110	N	ASN	A 70	50.03	4 -3.989	10.254	1.00 49.53	N
ATOM 1112	CA	ASN	A 70	49.288	3 -5.146	10.709	1.00 49.78	С
ATOM 1114	CB	ASN	A 70	47.88	7 -5.148	10.071	1.00 47.45	С
ATOM 1117	CG	ASN	A 70	47.02	5 -4.054	10.557	1.00 45.01	C
ATOM 1118	OD1	ASN	A 70	46.65	4 -4.043	11.719	1.00 45.13	0
ATOM 1119		ASN		46.71		9.690	1.00 43.78	N
ATOM 1122	С	ASN		49.990		10.192	1.00 51.18	С
ATOM 1123	0	ASN		50.449		9.044	1.00 50.13	0
ATOM 1124	N	THR		50.10		11.001	1.00 53.00	N
ATOM 1126	$^{\mathrm{CA}}$	THR		50.513		10.427	1.00 55.45	С
ATOM 1128	CB	THR		51.718		11.116	1.00 58.70	C
ATOM 1130		THR		51.432		12.492	1.00 59.65	0
ATOM 1132		THR		52.90		11.068	1.00 60.02	C
ATOM 1136	С	THR		49.382		10.440	1.00 55.26	C
ATOM 1137	0	THR			0 -10.818	9.952	1.00 55.74	0
ATOM 1138	N	VAL		48.242		11.005	1.00 53.94	И
ATOM 1140	CA	VAL			4 -10.219	11.120	1.00 53.04	C
ATOM 1142 ATOM 1144	CB CC1	VAL VAL		45.909 45.38		11.839 11.059	1.00 51.69	C C
ATOM 1144 ATOM 1148		VAL			6 -10.530	12.214	1.00 47.61 1.00 51.56	C
ATOM 1148 ATOM 1152	C	VAL			-10.330	9.727	1.00 51.50	C
ATOM 1152 ATOM 1153	0	VAL			2 -10.096	8.734	1.00 50.25	0
ATOM 1153	N	GLU			5 -12.047	9.672	1.00 53.42	И
ATOM 1156	CA	GLU			7 -12.720	8.413	1.00 53.56	C
ATOM 1158	CB	GLU			1 -14.219	8.575	1.00 55.45	C
ATOM 1161	CG	GLU			5 -14.829	7.190	1.00 57.21	Č
ATOM 1164	CD	GLU			9 -16.328	7.121	1.00 65.02	Ċ
ATOM 1165		GLU			9 -16.914	8.248	1.00 68.29	0
ATOM 1166		GLU			4 -16.869	5.933	1.00 62.47	0
ATOM 1167	С	GLU	A 73	45.169	9 -12.057	7.647	1.00 51.07	C
ATOM 1168	0	GLU	A 73	45.353	L -11.655	6.539	1.00 49.97	0
ATOM 1169	N	ARG	A 74	44.013	l -11.888	8.257	1.00 50.85	N
ATOM 1171	CA	ARG	A 74	42.87	7 -11.303	7.545	1.00 49.00	C
ATOM 1173	CB	ARG	A 74	41.87	4 - 12.437	7.294	1.00 49.93	C
ATOM 1176	CG	ARG	A 74	40.413	1 -12.118	7.396	1.00 51.98	С
ATOM 1179	CD	ARG			3 -13.326	7.038	1.00 54.93	C
ATOM 1182	NE	ARG			4 -13.105	5.645	1.00 59.31	N
ATOM 1184	CZ	ARG			9 -13.895	4.959	1.00 62.52	С
ATOM 1185		ARG			2 -14.941	5.616	1.00 65.45	N
ATOM 1188		ARG			7 -13.648	3.635	1.00 58.43	N
ATOM 1191	C	ARG			5 -10.058	8.264	1.00 46.63	C
ATOM 1192	0	ARG		42.386		9.436	1.00 46.29	0
ATOM 1193	N	ILE		41.684		7.517	1.00 44.98	N
ATOM 1195	CA	ILE		40.955		8.086	1.00 43.65	C
ATOM 1197	CB CC1	ILE		41.725		7.884	1.00 42.04	C
ATOM 1199		ILE		42.83		8.929	1.00 43.21	C
ATOM 1202		ILE		44.040		8.633	1.00 42.89 1.00 42.87	C
ATOM 1206 ATOM 1210	C	ILE		40.805 39.538		8.084 7.476	1.00 42.87	C
ATOM 1210 ATOM 1211	0	ILE		39.350		6.451	1.00 42.35	0
ATOM 1211 ATOM 1212	N	PRO		38.576		8.099	1.00 39.45	Ŋ
ATOM 1212 ATOM 1213	CA	PRO		37.285		7.461	1.00 43.86	C
ATOM 1215	CB	PRO			5 -10.049	8.210	1.00 43.31	C
ATOM 1213	CG	PRO		37.340		9.568	1.00 45.76	C
ATOM 1210	CD	PRO		38.691		9.406	1.00 44.45	C
ATOM 1221	C	PRO		36.324		7.568	1.00 42.78	C
ATOM 1225	o	PRO		35.396		8.333	1.00 45.44	0
ATOM 1226	N	LEU		36.535		6.748	1.00 41.49	N
ATOM 1228	CA	LEU		35.641		6.537	1.00 39.87	C
ATOM 1230	CB	LEU		36.546		6.198	1.00 38.77	c
	-							-

ATOM	1233	CG	LEU	Α	77	37.158	-3.827	7.512	1.00 41.18	С
Δ¶ΩM	1235	CD1	LEU	Δ	77	38.215	-2.809	7.271	1.00 41.61	С
ATOM	1239	CDZ	LEU	A	77	36.111	-3.156	8.502	1.00 40.56	C
ATOM	1243	C	LEU	Α	77	34.637	-5.929	5.427	1.00 41.28	C
	1244	0	LEU		77	34.447	-5.251	4.413	1.00 42.53	0
ATOM	1245	N	GLU	Α	78	33.972	-7.055	5.647	1.00 43.65	N
ATOM	1247	CA	GLU	Ά	78	33.051	-7.679	4.726	1.00 44.72	C
ATOM	1249	CB	GLU	A	78	32.625	-9.074	5.243	1.00 47.90	С
ATOM	1252	CG	GLU	A	78	33.638	-10.261	5.125	1.00 49.04	C
	1255	CD	GLU		78	33.290			1.00 57.37	Ċ
								6.010		
ATOM	1256	OE 1	GLU	A	78	32.198	-11.438	6.698	1.00 60.60	0
ATOM	1257	OE2	GLU	Ά	78	34.099	-12.458	6.053	1.00 64.67	0
					78					
	1258	С	GLU			31.804	-6.852	4.471	1.00 45.32	C
MOTA	1259	0	GLU	Α	78	31.180	-7.118	3.483	1.00 48.23	0
ATOM	1260	N	ASN	Δ	79	31.427	-5.864	5.300	1.00 45.00	N
ATOM	1262	$^{\rm CA}$	ASN	A.	79	30.167	-5.128	5.064	1.00 45.06	С
MOTA	1264	CB	ASN	Α	79	29.175	-5.520	6.123	1.00 47.94	C
A) TI OM	1267	CG	ASN	7\	79	28.893	-7.032	6.112	1.00 46.44	С
ATOM	1268	ODI	ASN	Α	79	28.282	-7.536	5.190	1.00 48.09	0
MOTA	1269	ND2	ASN	Α	79	29.350	-7.723	7.101	1.00 45.47	N
	1272	C	ASN		79	30.263	-3.572	4.936	1.00 44.03	С
MOTA	1273	0	ASN	Α	79	29.243	-2.882	4.734	1.00 44.31	0
ΔΤΟΜ	1274	N	LEU	Ζ\.	80	31.505	-3.086	4.968	1.00 41.14	N
ATOM	1276	CA	LEU	А	80	31.853	-1.726	4.783	1.00 39.81	С
MOTA	1278	CB	LEU	Α	80	33.381	-1.607	4.910	1.00 35.95	C
	1281	CG	LEU		80	33.900	-0.184	4.736	1.00 39.21	C
MOTA	1283	CD1	$_{ m LEU}$	Α	80	33.164	0.825	5.606	1.00 37.81	C
АТОМ	1287	CD2	LEU	Α	80	35.397	0.048	4.966	1.00 41.93	C
	1291	С	LEU		80	31.377	-1.250	3.421	1.00 40.93	С
ATOM	1292	0	$_{ m LEU}$	Α	80	32.049	-1.496	2.469	1.00 42.60	0
MOPL	1293	N	GLN	Δ	81	30.255	-0.537	3.300	1.00 42.84	N
ATOM	1295	CA	GLN	Α	81	29.796	-0.098	1.984	1.00 43.93	С
ATOM	1297	CB	GLN	Α	81	28.269	0.058	1.841	1.00 46.43	C
ATOM	1300	CG	GLN	Δ	81	27.410	-0.770	2.822	1.00 53.59	C
ATOM	T303	CD	GLN	Α	81	25.871	-0.694	2.613	1.00 59.31	C
ATOM	1304	OE1	GLN	Α	81	25.397	-0.526	1.466	1.00 64.23	0
ATOM			·GLN		81	25.105	-0.867	3.707	1.00 58.31	И
MOTA	1308	C	GLN	Α	81	30.427	1.192	1.574	1.00 43.10	C
ATOM	1309	0	GLN	A	81	30.390	1.526	0.406	1.00 44.40	0
ATOM		N	ILE		82	30.926	1.983	2.500	1.00 42.20	N
MOTA	1312	CA	ILE	Α	82	31.227	3.374	2.148	1.00 41.78	C
MOTA	1314	CB	ILE	Α	82	29.952	4.210	2.093	1.00 43.88	C
ATOM			ILE		82	30.226		1.936		Ċ
							5.693		1.00 44.99	
ATOM	1319	CD1	ILE	Α	82	28.980	6.417	1.322	1.00 47.81	C
ATOM	1323	CG2	ILE	Α	82	29.181	4.105	3.300	1.00 46.56	C
ATOM		C						3.099		
			ILE		82	32.123	4.000		1.00 40.42	С
MOTA	1328	0	ILE	Α	82	31.890	3.965	4.277	1.00 40.10	0
ATOM	1329	И	ILE	Ά	83	33.149	4.590	2.559	1.00 40.78	N
						33.982				
ATOM		CA	ILE		83		5.550	3.268	1.00 41.60	С
MOTA	1333	СВ	$_{ m ILE}$	Α	83	35.472	5.198	2.997	1.00 40.44	C
ATOM	1335	CG1	ILE	Δ	83	35.765	3.848	3.622	1.00 40.01	С
ATOM			ILE		83	36.743	3.034	2.815	1.00 42.41	С
ATOM	1342	CG2	ILE	Α	83	36.410	6.236	3.487	1.00 38.30	C
ATOM	1346	С	ILE	Δ	83	33.669	6.893	2.695	1.00 42.50	С
MOTA	134/	0	ILE	A	83	33.999	7.150	1.579	1.00 43.19	0
MOTA	1348	N	ARG	A	84	33.018	7.761	3.415	1.00 44.85	N
ATOM		CA	ARG		84	32.956	9.181	2.954	1.00 47.16	C
MOTA	1352	CB	ARG	A	84	31.957	9.935	3.837	1.00 48.61	C
MOTA	1355	CG	ARG	A	84	30.620	9.238	4.016	1.00 46.73	C
ATOM		CD	ARG		84	29.729	9.845	5.062	1.00 47.11	Ċ
MOTA	1361	NE	ARG	A	84	28.625	8.937	5.218	1.00 49.65	И
MOTA	1363	CZ	ARG	A	84	27.542	8.873	4.460	1.00 52.43	С
MOTA			ARG		84	27.321	9.737	3.523	1.00 56.44	И
MOTA	1367	NH2	ARG	A	84	26.651	7.905	4.649	1.00 56.44	N
ATOM		С	ARG		84	34.366	9.791	3.133	1.00 47.81	C
ATOM		0	ARG		84	35.119	9.296	3.931	1.00 49.72	0
ATOM	1372	N	GLY	A	85	34.798	10.845	2.512	1.00 49.39	N
A TY OM	1374	CA	GLY	A	85	36.098	11.343	3.004	1.00 49.30	C
MI ON							-			~

ATOM 1377	С	GLY	Z	85	36.067	12.641	3.784	1 00	51.38	С
ATOM 1378	Ö	GLY		85	36.672	13.702	3.350		54.87	Ö
ATOM 1379	N	ASN		86	35.350	12.634	4.894		50.44	N
ATOM 1375	CA	ASN		86	35.247	13.909	5.616		53.16	C
	CB	ASN		86	34.137	13.970	6.662		54.49	Č
ATOM 1383										
ATOM 1386	CG	ASN		86	32.855	13.473	6.133		56.57	C
ATOM 1387		ASN		86	32.589	13.516	4.880		57.07	0
ATOM 1388		ASN		86	32.041	12.937	7.053		58.10	N
ATOM 1391	C	ASN		86	36.544	14.299	6.243		52.27	C
ATOM 1392	0	ASN		86	36.736	15.441	6.387		54.97	0
ATOM 1393	N	MET		87	37.376	13.355	6.672		49.69	N
ATOM 1395	CA	MET		87	38.812	13.569	6.874		50.28	C
ATOM 1397	CB	MET		87	39.369	13.214	8.246		50.21	C
ATOM 1400	CG	MET		87	38.562	13.459	9.436		54.83	С
ATOM 1403	SD	MET		87	39.259	14.846	10.126		63.81	S
ATOM 1404	CE	MET		87	38.913	15.937	8.831		64.30	С
ATOM 1408	С	MET	A	87	39.563	12.647	5.990	1.00	48.04	С
ATOM 1409	0	MET	A	87	39.001	11.677	5.499		46.37	0
ATOM 1410	N	\mathbf{T} YR	A	88	40.857	12.939	5.889	1.00	49.45	N
ATOM 1412	CA	TYR	Α	88	41.828	12.188	5.123	1.00	49.57	C
ATOM 1414	CB	TYR	A	88	42.405	13.024	3.985	1.00	50.98	С
ATOM 1417	CG	TYR	A	88	41.429	13.553	2.930	1.00	53.15	С
ATOM 1418	CD1	TYR	Α	88	41.227	14.877	2.711	1.00	57.66	С
ATOM 1420	CE1	TYR	A	88	40.400	15.281	1.763	1.00	56.97	C
ATOM 1422	CZ	TYR	A	88	39.767	14.410	0.984	1.00	52.93	C
ATOM 1423	OH	TYR	A	88	38.880	14.736	0.021	1.00	53.52	0
ATOM 1425	CE2	TYR	A	88	39.952	13.177	1.150	1.00	52.34	C
ATOM 1427	CD2	TYR	Α	88	40.787	12.717	2.112	1.00	54.43	C
ATOM 1429	C	TYR	A	88	43.005	11.772	5.994	1.00	50.38	C
ATOM 1430	0	TYR	A	88	43.540	12.623	6.636	1.00	51.81	0
ATOM 1431	N	TYR	A	89	43.461	10.494	6.003	1.00	49.68	N
ATOM 1433	CA	TYR	Α	89	44.851	10.226	6.458	1.00	51.12	C
ATOM 1435	CB	TYR	A	89	45.199	8.793	6.230	1.00	48.69	C
ATOM 1438	CG	TYR	A	89	46.550	8.377	6.698	1.00	49.97	C
ATOM 1439	CD1	TYR	Α	89	46.788	8.184	7.998	1.00	52.94	C
ATOM 1441	CE1	TYR	Α	89	48.046	7.787	8.456	1.00	54.76	С
ATOM 1443	CZ	TYR	Α	89	49.063	7.565	7.595	1.00	53.29	С
ATOM 1444	OH	TYR	Α	89	50.254	7.164	8.142	1.00	54.86	0
ATOM 1446	CE2	TYR	A	89	48.855	7.728	6.279	1.00	52.09	C
ATOM 1448	CD2	TYR	A	89	47.581	8.133	5.832	1.00	52.11	C
ATOM 1450	С	TYR	Α	89	45.758	11.121	5.592	1.00	54.75	C
ATOM 1451	0	TYR	Α	89	45.311	11.553	4.499	1.00	57.07	0
ATOM 1452	N	GLU	Α	90	46.990	11.416	6.012	1.00	56.38	N
ATOM 1454	CA	GLU	A	90	47.978	12.129	5.116	1.00	58.43	С
ATOM 1456	CB	GLU	A	90	49.394	11.443	5.224	1.00	60.02	C
ATOM 1459	CG	GLU	Α	90	49.655	10.346	4.183	1.00	63.93	C
ATOM 1462	CD	GLU	A	90	51.108	9.763	4.087	1.00	72.04	С
ATOM 1463	OE1	GLU	Α	90	52.082	10.496	4.526	1.00	73.67	0
ATOM 1464	OE2	GLÜ	A	90	51.246	8.551	3.534	1.00	70.25	O
ATOM 1465	С	GLU	Α	90	47.584	12.478	3.607	1.00	56.72	C
ATOM 1466	0	GLU	Α	90	47.069	11.643	2.909	1.00	53.74	0
ATOM 1467	N	ASN	A	91	47.844	13.712	3.136	1.00	59.85	N
ATOM 1469	CA	ASN	Α	91	47.846	14.086	1.691	1.00	61.10	C
ATOM 1471	CB	ASN	Α	91	48.956	13.309	0.852	1.00	62.38	C
ATOM 1474	CG	ASN	A	91	50.403	13.342	1.452	1.00	66.43	C
ATOM 1475	OD1	ASN	A	91	51.269	14.148	1.040	1.00	66.35	0
ATOM 1476	ND2	ASN	Α	91	50.692	12.379	2.344	1.00	68.77	N
ATOM 1479	С	ASN	Α	91	46.511	13.735	1.008	1.00	57.87	C
ATOM 1480	0	ASN	A	91	46.489	13.144	-0.104	1.00	58.73	0
ATOM 1481	N	SER		92	45.373	13.936	1.639		54.13	N
ATOM 1483	CA	SER		92	44.142	13.510	0.901	1.00	50.01	C
ATOM 1485	CB	SER		92	43.991	14.441	-0.308		53.39	C
	OG	SER		92	44.397	13.795	-1.479		55.51	0
ATOM 1488	-	SER		92	43.861	11.994	0.390		45.90	C
ATOM 1488 ATOM 1490	C									
	0	SER		92	43.244	11.776	-0.632	1.00	45.63	0
ATOM 1490			A	92 93		11.776 11.012			45.63 44.30	И О
ATOM 1490 ATOM 1491	0	SER	A A		43.244		-0.632 1.185 0.991	1.00		
ATOM 1490 ATOM 1491 ATOM 1492	N O	SER TYR	A A A	93	43.244 44.238	11.012	1.185	1.00 1.00	44.30	N

70 mow 1400	CG TYR F	93	46.166	8.787	0.278	1.00 43.87	C
ATOM 1499							
ATOM 1500	CD1 TYR A		47.407	9.146	0.829	1.00 46.10	C
ATOM 1502	CE1 TYR F		48.541	9.327	0.012	1.00 50.76	С
ATOM 1504	CZ TYR F	93	48.439	9.139	-1.371	1.00 48.97	C
ATOM 1505	OH TYR F	93	49.527	9.284	-2.159	1.00 51.85	0
ATOM 1507	CE2 TYR F	93	47.228	8.775	-1.937	1.00 47.04	С
ATOM 1509	CD2 TYR A	93	46.087	8.588	-1.104	1.00 44.48	С
ATOM 1511	C TYR F		42.754	9.357	2.068	1.00 42.52	Č
ATOM 1511	O TYR F		43.009	9.539	3.289	1.00 42.34	Ŏ
ATOM 1513	N ALA A		41.585	8.947	1.581	1.00 42.12	N
ATOM 1515	CA ALA F		40.467	8.458	2.386	1.00 41.29	С
ATOM 1517	CB ALA A	94	39.124	8.712	1.688	1.00 41.93	C
ATOM 1521	C ALA A	94	40.538	7.046	2.741	1.00 36.58	С
ATOM 1522	O ALA F	94	39.832	6.652	3.648	1.00 38.88	0
ATOM 1523	N LEU F	95	41.322	6.287	1.976	1.00 37.35	N
ATOM 1525	CA LEU A		41.677	4.889	2.345	1.00 36.53	C
ATOM 1527	CB LEU F		40.838	3.878	1.575	1.00 35.59	Č
ATOM 1530	CG LEU F		41.249	2.405	1.730	1.00 38.72	C
ATOM 1532	CD1 LEU F		40.952	1.856	3.092	1.00 38.41	С
ATOM 1536	CD2 LEU F	95	40.553	1.538	0.725	1.00 40.76	С
ATOM 1540	C LEU F	95	43.155	4.620	2.097	1.00 36.96	С
ATOM 1541	O LEU F	95	43.702	4.902	1.040	1.00 36.85	0
ATOM 1542	N ALA A	96	43.811	4.030	3.064	1.00 36.75	N
ATOM 1544	CA ALA A		45.256	3.954	2.964	1.00 39.78	Č
ATOM 1544	CB ALA		45.925	5.164	3.605	1.00 41.49	Č
ATOM 1550	C ALA A		45.666	2.689	3.629	1.00 40.17	C
ATOM 1551	O ALA F		45.306	2.465	4.723	1.00 39.98	0
ATOM 1552	N VAL F	97	46.352	1.827	2.908	1.00 41.75	N
ATOM 1554	CA VAL F	97	46.585	0.484	3.341	1.00 42.09	С
ATOM 1556	CB VAL F	97	45.788	-0.476	2.463	1.00 41.49	C
ATOM 1558	CG1 VAL F	97	46.026	-1.918	2.852	1.00 42.14	С
ATOM 1562	CG2 VAL F		44.323	-0.177	2.615	1.00 41.22	C
ATOM 1566	C VAL F		48.086	0.352	3.161	1.00 44.34	Č
ATOM 1567	O VAL A		48.554	0.134	2.051	1.00 45.40	0
ATOM 1568	N LEU A		48.818	0.528	4.272	1.00 45.17	N
ATOM 1570	CA LEU A		50.276	0.703	4.325	1.00 46.32	С
ATOM 1572	CB LEU F	98	50.596	2.056	4.941	1.00 47.45	С
ATOM 1575	CG LEU F	98	49.900	3.267	4.427	1.00 46.46	С
ATOM 1577	CD1 LEU F	98	50.711	4.432	4.845	1.00 49.07	С
ATOM 1581	CD2 LEU A	98	49.904	3.181	2.962	1.00 49.37	С
ATOM 1585	C LEU A		51.052	-0.301	5.190	1.00 46.58	c
ATOM 1586	O LEU F		50.744	-0.562	6.346	1.00 44.34	Ö
ATOM 1587							
	N SER F		52.121	-0.774	4.585	1.00 48.54	N
ATOM 1589	CA SER A		53.196	-1.505	5.215	1.00 51.61	C
ATOM 1591	CB SER P	99	54.303	-0.529	5.593	1.00 54.70	C
ATOM 1594	OG SER P	99	53.951	0.131	6.737	1.00 56.30	0
ATOM 1596	C SER F	99	52.781	-2.478	6.314	1.00 50.51	С
ATOM 1597	O SER F	99	53.385	-2.555	7.367	1.00 51.44	0
ATOM 1598	n Asn A		51.810	-3.301	5.909	1.00 48.91	N
ATOM 1600	CA ASN A		51.163	-4.336	6.673	1.00 48.16	C
ATOM 1602	CB ASN A		49.731	-4.596	6.150	1.00 45.34	Č
							C
ATOM 1605	CG ASN A		48.753	-3.488	6.537	1.00 43.98	
ATOM 1606	OD1 ASN A		48.493	-3.220	7.752	1.00 44.49	0
ATOM 1607	ND2 ASN A		48.219	-2.820	5.529	1.00 40.05	N
ATOM 1610	C ASN P	100	51.948	-5.611	6.590	1.00 50.03	C
ATOM 1611	O ASN A	100	51.466	-6.581	6.059	1.00 49.67	0
ATOM 1612	N TYR F	101	53.167	-5.561	7.095	1.00 52.63	N
ATOM 1614	CA TYR A		54.057	-6.682	7.206	1.00 55.81	Č
ATOM 1614 ATOM 1616	CB TYR F		54.935	-6.876	5.957	1.00 57.44	Č
ATOM 1619	CG TYR A		55.910	-5.739	5.711	1.00 61.09	C
ATOM 1620	CD1 TYR A		57.282	-5.915	5.822	1.00 65.26	C
ATOM 1622	CE1 TYR P	101	58.178	-4.835	5.598	1.00 67.71	C
ATOM 1624	CZ TYR F	101	57.689	-3.571	5.279	1.00 66.52	C
ATOM 1625	OH TYR F		58.504	-2.489	5.080	1.00 66.74	0
ATOM 1627	CE2 TYR A		56.339	-3.370	5.169	1.00 63.37	Ċ
ATOM 1629	CD2 TYR F		55.450	-4.453	5.380	1.00 61.79	Č
			54.922				C
ATOM 1631				-6.375	8.399	1.00 59.02	
ATOM 1632	O TYR F	7 TOT	54.849	-5.281	8.984	1.00 59.11	0

ΣπОм	1633	N	ΔQD	ΖΔ.	102	55.740	-7.351	8.775	1 00	62.99	N
	1635	CA			102	56.695	-7.200			66.01	
								9.858			C
	1637	CB			102	56.193	-7.849	11.169		66.35	C
	1640	CG			102	56.362	-9.374	11.239		70.03	C
	1641		ASP				-10.092	10.212		73.62	0
	1642		ASP			56.400	-9.961	12.340		72.18	0
	1643	С			102	58.069	-7.681	9.459		69.88	С
	1644	0			102	58.284	-8.255	8.390	1.00	69.60	0
	1645	N			103	59.005	-7.382	10.340	1.00	73.77	N
	1647	CA	ALA	Α	103	60.390	-7.786	10.188	1.00	78.79	C
MOTA	1649	CB	ALA	A	103	61.234	-7.388	11.471	1.00	82.44	C
MOTA	1653	C	ALA	Α	103	60.469	-9.265	9.936	1.00	80.28	C
ATOM	1654	0	ALA	A	103	61.349	-9.677	9.202	1.00	83.58	0
MOTA	1655	N	ASN	Α	104	59.535	-10.036	10.519	1.00	78.84	N
MOTA	1657	CA	ASN	Α	104	59.562	-11.517	10.518	1.00	81.30	C
MOTA	1659	CB	ASN	Α	104	58.700	-12.058	11.667	1.00	80.83	C
ATOM	1662	CG	ASN	Α	104	59.503	-12.368	12.896	1.00	85.11	C
ATOM	1663	OD1	ASN	Α	104	60.124	-13.432	12.973	1.00	88.51	0
ATOM	1664	ND2	ASN	Α	104	59.490	-11.439	13.881	1.00	83.35	N
ATOM	1667	С	ASN	Α	104	59.156	-12.295	9.262	1.00	80.02	С
ATOM	1668	0	ASN	Α	104	59.059	-13.525	9.360	1.00	81.89	0
MOTA	1669	N	ALA	Α	105		-11.613	8.120		77.36	И
ATOM		CA	ALA				-12.224	6.874		76.38	C
ATOM		CB	ALA				-13.356	6.374		80.34	c
ATOM		C	ALA				-12.731	6.961		73.17	Č
ATOM		Ö			105		-13.889	6.700		73.97	Ō
ATOM		N			106		-11.824	7.298		69.66	N
ATOM		CA			106		-12.097	7.532		66.80	C
ATOM		CB			106		-12.371	9.047		68.37	c
ATOM			THR				-13.390	9.523		72.58	0
ATOM			THR				-12.913	9.329		67.58	C
ATOM		C			106		-10.812	7.270			
ATOM		0			106	54.416				62.45	C
ATOM					107		-9.762	7.574		62.25	0
		N					-10.886	6.782		58.72	N
ATOM		CA	GLY			51.864	-9.712	6.675		55.00	C
ATOM		C	GLY			50.400	-9.905	6.384		53.15	C
MOTA		0	GLY				-10.953	6.433		53.80	0
MOTA		N	LEU			49.751	-8.814	6.049		52.41	N
ATOM		CA	LEU			48.340	-8.814	5.782		50.68	C
ATOM		CB	LEU			47.813	-7.395	5.753		47.39	C
MOTA		CG	LEU			46.336	-7.409	5.418		45.14	C
MOTA			LEU			45.449	-8.110	6.475		45.32	C
MOTA			LEU			45.931	-5.996	5.325		43.71	C
ATOM		C	LEU			48.153	-9.472	4.422		52.50	C
ATOM		0	LEU			48.849	-9.151	3.447		55.00	0
ATOM		N	LYS				-10.355	4.355		52.74	N
MOTA		CA	LYS				-11.238	3.229		53.15	С
MOTA		СВ	LYS				-12.559	3.644		55.47	C
MOTA		CG	LYS				-13.758	2.850		58.35	С
MOTA		CD	LYS				-15.038	3.348		64.60	C
ATOM		CE	LYS				-16.247	2.344	1.00	68.67	C
ATOM		NZ	LYS				-17.517	2.627	1.00	71.64	N
ATOM		С	LYS			45.472	-11.376	3.326	1.00	51.57	C
ATOM	1740	0	LYS	Α	109	45.043	-11.938	4.301	1.00	55.49	0
ATOM	1741	N	GLU	A	110	44.629	-10.868	2.482	1.00	48.33	N
MOTA	1743	CA	GLU	Α	110	43.162	-10.946	2.841	1.00	47.27	C
ATOM	1745	CB	GLU	A	110	42.668	-12.235	3.564	1.00	48.52	С
ATOM	1748	CG	GLU	А	110	42.930	-13.571	2.828	1.00	52.86	С
MOTA	1751	CD	GLU	Α	110	42.513	-14.864	3.570	1.00	55.78	C
MOTA	1752	OE1	GLU	A	110	41.488	-14.854	4.321	1.00	53.35	0
ATOM	1753	OE2	GLU			43.190	-15.927	3.337	1.00	63.72	0
ATOM	1754	С	GLU	Α	110	42.519	-9.791	3.590	1.00	44.72	C
ATOM	1755	0	GLU			42.327	-9.843	4.769	1.00	44.16	0
ATOM	1756	N	LEU	A	111	42.058	-8.851	2.780		42.81	N
ATOM	1758	CA	LEU	A	111	41.322	-7.684	3.153		41.48	С
MOTA		СВ	LEU			42.164	-6.445	2.787		40.76	C
ATOM		CG	LEU			41.578	-5.068	2.935		39.62	С
ATOM			LEU			41.011	-4.863	4.331		41.72	C
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ATOM 1769	CD2 LEU A 111	42.691 -4.	060 2.710	1.00 39.92	С
					č
ATOM 1773	C LEU A 111	40.103 -7.		1.00 41.38	
ATOM 1774	O LEU A 111	40.014 -6.	823 1.395	1.00 42.26	0
ATOM 1775	N PRO A 112	39.179 -8.	521 2.525	1.00 41.64	N
ATOM 1776	CA PRO A 112	38.060 -8.	786 1.640	1.00 42.53	C
		37.638 -10.		1.00 44.60	Č
ATOM 1778					
ATOM 1781	CG PRO A 112	37.805 -10.	066 3.588	1.00 43.64	C
ATOM 1784	CD PRO A 112	39.114 -9.	318 3.760	1.00 43.26	C
ATOM 1787	C PRO A 112	36.845 -7.	849 1.760	1.00 42.22	C
				1.00 43.92	
ATOM 1788	O PRO A 112	35.765 -8.			0
ATOM 1789	N MET A 113	36.976 -6.	650 1.225	1.00 41.57	N
ATOM 1791	CA MET A 113	35.973 -5.	586 1.353	1.00 41.49	C
ATOM 1793	CB MET A 113	36.676 -4.	230 1.468	1.00 40.58	C
ATOM 1796	CG MET A 113	37.824 -4.		1.00 41.70	C
ATOM 1799	SD MET A 113	38.645 -2.		1.00 44.40	S
ATOM 1800	CE MET A 113	38.085 -1.	709 1.780	1.00 48.11	С
ATOM 1804	C MET A 113	35.088 -5.	639 0.146	1.00 42.26	C
ATOM 1805	O MET A 113	35.080 -4.		1.00 42.73	0
ATOM 1806	N ARG A 114	34.344 -6.		1.00 42.70	N
ATOM 1808	CA ARG A 114	33.513 -6.	960 -1.108	1.00 43.40	C
ATOM 1810	CB ARG A 114	33.165 -8.	423 -1.136	1.00 45.30	C
ATOM 1813	CG ARG A 114	32.163 -8.	694 -0.123	1.00 48.87	C
ATOM 1816	CD ARG A 114	32.431 -9.		1.00 54.37	ċ
ATOM 1819	NE ARGA 114	31.551 -10.		1.00 56.34	N
ATOM 1821	CZ ARG A 114	31.514 -11.	297 2.263	1.00 55.48	С
ATOM 1822	NH1 ARG A 114	32.344 -12.	304 1.982	1.00 51.37	N
ATOM 1825	NH2 ARG A 114	30.674 -11.	331 3.277	1.00 60.58	N
				1.00 42.43	C
ATOM 1828					
ATOM 1829	O ARG A 114	31.422 -6.		1.00 43.72	0
ATOM 1830	N ASN A 115	31.936 -5.	385 -0.165	1.00 41.74	N
ATOM 1832	CA ASN A 115	30.800 -4.	474 -0.183	1.00 42.25	С
ATOM 1834	CB ASN A 115	29.944 -4.		1.00 43.29	С
				1.00 44.56	Č
ATOM 1837					
ATOM 1838	OD1 ASN A 115	28.419 -6.		1.00 47.36	0
ATOM 1839	ND2 ASN A 115	29.181 -6.	668 1.865	1.00 52.65	N
ATOM 1842	C ASN A 115	31.177 -3.	013 -0.329	1.00 40.39	С
ATOM 1843	O ASN A 115	30.332 -2.		1.00 41.23	0
					N
ATOM 1844	N LEU A 116	32.440 -2.		1.00 38.95	
ATOM 1846	CA LEU A 116	32.917 -1.		1.00 39.18	C
ATOM 1848	CB LEU A 116	34.415 -1.	245 -0.029	1.00 37.99	С
ATOM 1851	CG LEU A 116	34.961 0.	166 -0.304	1.00 38.33	С
ATOM 1853	CD1 LEU A 116	34.239 1.		1.00 39.42	Ċ
					Ċ
ATOM 1857	CD2 LEU A 116		263 -0.035	1.00 38.20	
ATOM 1861	C LEU A 116	32.611 -0.	853 -1.839	1.00 40.77	C
ATOM 1862	O LEU A 116	33.220 -1.	240 -2.811	1.00 41.13	0
ATOM 1863	N GLN A 117	31.641 0.	020 -1.950	1.00 41.94	N
ATOM 1865	CA GLN A 117		433 -3.228		C
ATOM 1867	CB GLN A 117	29.790 -0.		1.00 46.41	C
ATOM 1870	CG GLN A 117	29.915 -1.		1.00 50.06	C
ATOM 1873	CD GLN A 117	28.659 -2.	188 -4.162	1.00 54.73	C
ATOM 1874	OE1 GLN A 117	27.898 -2.	178 -3.185	1.00 56.09	0
ATOM 1875	NE2 GLN A 117	28.436 -2.		1.00 56.36	И
ATOM 1878	C GLN A 117		908 -3.539	1.00 44.91	C
ATOM 1879	O GLN A 117	31.561 2.	178 -4.686	1.00 47.48	0
ATOM 1880	N GLU A 118	31.246 2.	324 -2.567	1.00 43.90	N
ATOM 1882	CA GLU A 118		203 -2.827	1.00 44.87	C
ATOM 1884	CB GLU A 118		058 -3.007	1.00 48.13	Č
ATOM 1887	CG GLU A 118		583 -3.040	1.00 50.77	C
ATOM 1890	CD GLU A 118		244 -4.365	1.00 56.86	C
ATOM 1891	OE1 GLU A 118	31.202 6.	589 -5.234	1.00 65.98	0
ATOM 1892	OE2 GLU A 118		468 -4.540	1.00 58.62	Ō
ATOM 1893			742 -1.785	1.00 42.40	C
ATOM 1894	O GLU A 118		414 -0.641	1.00 40.40	0
ATOM 1895	N ILE A 119	33.550 5.	555 -2.272	1.00 42.58	N
ATOM 1897	CA ILE A 119	34.382 6.	462 -1.481	1.00 41.49	C
ATOM 1899	CB ILE A 119		155 -1.688	1.00 40.87	Č
ATOM 1901	CG1 ILE A 119		839 -1.043	1.00 40.15	C
ATOM 1904	CD1 ILE A 119	37.837 4.	504 -1.293	1.00 40.31	C
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7.00M 1000	CC2 TTE % 110	26 000 7 05	1 006	1 00 40 44	G
ATOM 1908	CG2 ILE A 119	36.808 7.253		1.00 40.44	C
ATOM 1912	C ILE A 119	34.012 7.873		1.00 41.94	C
ATOM 1913	O ILE A 119	34.441 8.325	-3.039	1.00 44.53	0
ATOM 1914	N LEU A 120	33.182 8.572	2 -1.200	1.00 42.54	N
ATOM 1916	CA LEU A 120	32.619 9.83		1.00 46.08	C
ATOM 1918	CB LEU A 120	31.798 10.529		1.00 47.62	C
ATOM 1921	CG LEU A 120	30.428 10.004	-0.329	1.00 50.88	С
ATOM 1923	CD1 LEU A 120	29.763 11.116	0.529	1.00 54.37	C
ATOM 1927	CD2 LEU A 120	29.652 9.703		1.00 50.49	С
ATOM 1931	C LEU A 120				Č
				1.00 46.27	
ATOM 1932	O LEU A 120	33.462 11.522	-3.112	1.00 48.50	0
ATOM 1933	N HIS A 121	34.737 10.900	5 -1.361	1.00 45.34	N
ATOM 1935	CA HIS A 121	35.891 11.734	-1.632	1.00 45.38	С
ATOM 1937	CB HIS A 121	35.889 12.963		1.00 47.60	C
					Č
ATOM 1940	CG HIS A 121	34.582 13.616		1.00 47.72	
ATOM 1941	ND1 HIS A 121	34.347 14.893	_1.097	1.00 49.72	И
ATOM 1943	CE1 HIS A 121	33.129 15.253	-0.758	1.00 50.90	C
ATOM 1945	NE2 HIS A 121	32.577 14.277	-0.081	1.00 49.78	N
ATOM 1947	CD2 HIS A 121	33.480 13.248		1.00 47.09	C
ATOM 1949	C HIS A 121	37.208 11.133		1.00 44.24	C
ATOM 1950	O HIS A 121	37.331 10.470	-0.247	1.00 43.40	0
ATOM 1951	N GLY A 122	38.215 11.496	-2.036	1.00 46.45	N
ATOM 1953	CA GLY A 122	39.568 11.184	-1.687	1.00 46.38	С
ATOM 1956	C GLY A 122	40.066 10.056		1.00 46.66	C
ATOM 1957	O GLY A 122	39.309 9.308		1.00 44.50	0
ATOM 1958	N ALA A 123	41.369 9.924	-2.491	1.00 47.30	N
ATOM 1960	CA ALA A 123	42.029 8.889	-3.172	1.00 47.38	С
ATOM 1962	CB ALA A 123	43.273 9.483		1.00 49.98	С
ATOM 1966	C ALA A 123	42.350 7.675		1.00 44.62	C
ATOM 1967	O ALA A 123	41.818 7.512		1.00 43.85	O
ATOM 1968	N VAL A 124	43.114 6.733	-2.791	1.00 45.41	N
ATOM 1970	CA VAL A 124	43.423 5.507	-2.138	1.00 43.66	C
ATOM 1972	CB VAL A 124	42.721 4.412		1.00 42.78	C
ATOM 1974	CG1 VAL A 124	43.053 3.093		1.00 44.72	C
ATOM 1978	CG2 VAL A 124	41.231 4.593		1.00 42.04	C
ATOM 1982	C VAL A 124	44.902 5.256	-2.142	1.00 44.48	C
ATOM 1983	O VAL A 124	45.611 5.612	-3.083	1.00 46.68	0
ATOM 1984	N ARG A 125	45.391 4.622		1.00 43.14	И
ATOM 1986	CA ARG A 125	46.761 4.216		1.00 44.94	C
ATOM 1988	CB ARG A 125	47.589 5.115		1.00 47.27	С .
ATOM 1991	CG ARG A 125	49.029 4.742	-0.264	1.00 51.74	C
ATOM 1994	CD ARG A 125	49.897 5.906	0.139	1.00 57.79	С
ATOM 1997	NE ARG A 125	51.268 5.694	-0.336	1.00 64.37	И
ATOM 1999	CZ ARG A 125	52.378 5.749		1.00 67.82	C
ATOM 2000	NH1 ARG A 125	52.312 6.066		1.00 67.17	И
ATOM 2003	NH2 ARG A 125	53.565 5.492	2 -0.178	1.00 68.87	N
ATOM 2006	C ARG A 125	46.936 2.808	-0.655	1 00 42 00	С
ATOM 2007	O ARG A 125			1.00 43.08	
		46.596 2.460	0.469	1.00 39.00	0
ATOM 2008	N PHE A 126	46.596 2.460 47.508 2.011	0.469	1.00 39.00 1.00 44.38	O N
ATOM 2010	N PHE A 126 CA PHE A 126	46.596 2.460 47.508 2.011 48.137 0.783	0.469 -1.552 -1.167	1.00 39.00 1.00 44.38 1.00 44.03	O N C
	N PHE A 126	46.596 2.460 47.508 2.011	0.469 -1.552 -1.167	1.00 39.00 1.00 44.38	O N
ATOM 2010	N PHE A 126 CA PHE A 126 CB PHE A 126	46.596 2.460 47.508 2.011 48.137 0.783 47.510 -0.344	0.469 -1.552 -1.167 -1.926	1.00 39.00 1.00 44.38 1.00 44.03 1.00 43.71	O N C
ATOM 2010 ATOM 2012 ATOM 2015	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126	46.596 2.460 47.508 2.011 48.137 0.783 47.510 -0.344 46.218 -0.807	0.469 -1.552 -1.167 -1.926 -1.391	1.00 39.00 1.00 44.38 1.00 44.03 1.00 43.71 1.00 40.01	0 N C C
ATOM 2010 ATOM 2012 ATOM 2015 ATOM 2016	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126 CD1 PHE A 126	46.596 2.460 47.508 2.011 48.137 0.783 47.510 -0.344 46.218 -0.807 45.108 -0.080	0.469 -1.552 -1.167 -1.926 -1.391 -1.549	1.00 39.00 1.00 44.38 1.00 44.03 1.00 43.71 1.00 40.01 1.00 40.92	0 N C C C
ATOM 2010 ATOM 2012 ATOM 2015 ATOM 2016 ATOM 2018	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126 CD1 PHE A 126 CE1 PHE A 126	46.596 2.460 47.508 2.011 48.137 0.783 47.510 -0.344 46.218 -0.807 45.108 -0.080 43.887 -0.550	0.469 -1.552 -1.167 -1.926 -1.391 -1.549 -1.063	1.00 39.00 1.00 44.38 1.00 44.03 1.00 43.71 1.00 40.01 1.00 40.92 1.00 39.27	0 N C C C C
ATOM 2010 ATOM 2012 ATOM 2015 ATOM 2016 ATOM 2018 ATOM 2020	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126 CD1 PHE A 126 CE1 PHE A 126 CZ PHE A 126	46.596 2.460 47.508 2.011 48.137 0.783 47.510 -0.344 46.218 -0.807 45.108 -0.080 43.887 -0.550 43.775 -1.763	0.469 -1.552 -1.167 -1.926 -1.391 -1.549 -1.063 -0.456	1.00 39.00 1.00 44.38 1.00 44.03 1.00 43.71 1.00 40.01 1.00 40.92 1.00 39.27 1.00 38.94	0 N C C C C
ATOM 2010 ATOM 2012 ATOM 2015 ATOM 2016 ATOM 2018	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126 CD1 PHE A 126 CE1 PHE A 126	46.596 2.460 47.508 2.011 48.137 0.783 47.510 -0.344 46.218 -0.807 45.108 -0.080 43.887 -0.550	0.469 -1.552 -1.167 -1.926 -1.391 -1.549 -1.063 -0.456	1.00 39.00 1.00 44.38 1.00 44.03 1.00 43.71 1.00 40.01 1.00 40.92 1.00 39.27	0 N C C C C
ATOM 2010 ATOM 2012 ATOM 2015 ATOM 2016 ATOM 2018 ATOM 2020	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126 CD1 PHE A 126 CE1 PHE A 126 CZ PHE A 126 CE2 PHE A 126 CE2 PHE A 126	46.596 2.460 47.508 2.011 48.137 0.783 47.510 -0.344 46.218 -0.807 45.108 -0.080 43.887 -0.550 43.775 -1.763 44.833 -2.509	0.469 -1.552 -1.167 -1.926 -1.391 -1.549 -1.063 -0.456 -0.371	1.00 39.00 1.00 44.38 1.00 44.03 1.00 43.71 1.00 40.01 1.00 40.92 1.00 39.27 1.00 38.94	0 N C C C C
ATOM 2010 ATOM 2012 ATOM 2015 ATOM 2016 ATOM 2018 ATOM 2020 ATOM 2022 ATOM 2024	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126 CD1 PHE A 126 CE1 PHE A 126 CZ PHE A 126 CE2 PHE A 126 CD2 PHE A 126 CD2 PHE A 126	46.596 2.460 47.508 2.011 48.137 0.783 47.510 -0.344 46.218 -0.807 45.108 -0.080 43.887 -0.550 43.775 -1.763 44.833 -2.503 46.088 -2.034	0.469 -1.552 -1.167 -1.926 -1.391 -1.549 -1.063 -0.456 -0.371 -0.854	1.00 39.00 1.00 44.38 1.00 44.03 1.00 40.01 1.00 40.92 1.00 39.27 1.00 38.94 1.00 42.57 1.00 42.75	0 N C C C C C C C
ATOM 2010 ATOM 2012 ATOM 2015 ATOM 2016 ATOM 2018 ATOM 2020 ATOM 2022 ATOM 2024 ATOM 2026	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126 CD1 PHE A 126 CE1 PHE A 126 CZ PHE A 126 CZ PHE A 126 CE2 PHE A 126 CD2 PHE A 126 CD2 PHE A 126 C PHE A 126	46.596 2.460 47.508 2.011 48.137 0.783 47.510 -0.344 46.218 -0.807 45.108 -0.080 43.887 -0.550 43.775 -1.763 44.833 -2.503 46.088 -2.034 49.648 0.852	0.469 -1.552 -1.167 -1.926 -1.391 -1.549 -1.063 -0.456 -0.371 -0.854 -1.465	1.00 39.00 1.00 44.38 1.00 44.03 1.00 40.01 1.00 40.92 1.00 39.27 1.00 38.94 1.00 42.57 1.00 42.75 1.00 46.82	0 N C C C C C C C C C C C C C C C C C C
ATOM 2010 ATOM 2012 ATOM 2015 ATOM 2016 ATOM 2018 ATOM 2020 ATOM 2022 ATOM 2024 ATOM 2026 ATOM 2027	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126 CD1 PHE A 126 CE1 PHE A 126 CZ PHE A 126 CZ PHE A 126 CE2 PHE A 126 CD2 PHE A 126 CD2 PHE A 126 C PHE A 126 C PHE A 126 C PHE A 126	46.596 2.460 47.508 2.013 48.137 0.783 47.510 -0.344 46.218 -0.807 45.108 -0.080 43.887 -0.550 43.775 -1.763 44.833 -2.503 46.088 -2.034 49.648 0.852 50.036 1.090	0.469 -1.552 -1.167 -1.926 -1.391 -1.549 -1.063 -0.456 -0.371 -0.854 -1.465 -2.614	1.00 39.00 1.00 44.38 1.00 44.03 1.00 40.01 1.00 40.92 1.00 39.27 1.00 38.94 1.00 42.57 1.00 42.75 1.00 46.82 1.00 47.64	0 N C C C C C C C C C C C C C C C C C C
ATOM 2010 ATOM 2012 ATOM 2015 ATOM 2016 ATOM 2018 ATOM 2020 ATOM 2022 ATOM 2024 ATOM 2026 ATOM 2027 ATOM 2028	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126 CD1 PHE A 126 CE1 PHE A 126 CZ PHE A 126 CZ PHE A 126 CE2 PHE A 126 CD2 PHE A 126 CD PHE A 126 C PHE A 126 N SER A 127	46.596 2.460 47.508 2.013 48.137 0.783 47.510 -0.344 46.218 -0.807 45.108 -0.080 43.887 -0.550 44.833 -2.550 44.833 -2.503 46.088 -2.034 49.648 0.852 50.036 1.090 50.476 0.631	0.469 -1.552 -1.167 -1.926 -1.391 -1.549 -1.063 -0.456 -0.371 -0.854 -1.465 -2.614 -0.423	1.00 39.00 1.00 44.38 1.00 44.03 1.00 40.01 1.00 40.01 1.00 39.27 1.00 38.94 1.00 42.57 1.00 42.75 1.00 46.82 1.00 47.64 1.00 47.70	0 N C C C C C C C C C C O N
ATOM 2010 ATOM 2012 ATOM 2015 ATOM 2016 ATOM 2018 ATOM 2020 ATOM 2022 ATOM 2024 ATOM 2026 ATOM 2027	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126 CD1 PHE A 126 CE1 PHE A 126 CZ PHE A 126 CZ PHE A 126 CE2 PHE A 126 CD2 PHE A 126 CD2 PHE A 126 C PHE A 126 C PHE A 126 C PHE A 126	46.596 2.460 47.508 2.013 48.137 0.783 47.510 -0.344 46.218 -0.807 45.108 -0.080 43.887 -0.550 43.775 -1.763 44.833 -2.503 46.088 -2.034 49.648 0.852 50.036 1.090	0.469 -1.552 -1.167 -1.926 -1.391 -1.549 -1.063 -0.456 -0.371 -0.854 -1.465 -2.614 -0.423	1.00 39.00 1.00 44.38 1.00 44.03 1.00 40.01 1.00 40.92 1.00 39.27 1.00 38.94 1.00 42.57 1.00 42.75 1.00 46.82 1.00 47.64	0 N C C C C C C C C C C C C C C C C C C
ATOM 2010 ATOM 2012 ATOM 2015 ATOM 2016 ATOM 2018 ATOM 2020 ATOM 2022 ATOM 2024 ATOM 2026 ATOM 2027 ATOM 2028	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126 CD1 PHE A 126 CE1 PHE A 126 CZ PHE A 126 CZ PHE A 126 CE2 PHE A 126 CD2 PHE A 126 CD PHE A 126 C PHE A 126 N SER A 127	46.596 2.460 47.508 2.013 48.137 0.783 47.510 -0.344 46.218 -0.807 45.108 -0.080 43.887 -0.550 44.833 -2.550 44.833 -2.503 46.088 -2.034 49.648 0.852 50.036 1.090 50.476 0.631	0.469 -1.552 -1.167 -1.926 -1.391 -1.549 -1.063 -0.456 -0.371 -0.854 -1.465 -2.614 -0.423 -0.566	1.00 39.00 1.00 44.38 1.00 44.03 1.00 40.01 1.00 40.01 1.00 39.27 1.00 38.94 1.00 42.57 1.00 42.75 1.00 46.82 1.00 47.64 1.00 47.70	0 N C C C C C C C C C C O N
ATOM 2010 ATOM 2012 ATOM 2015 ATOM 2016 ATOM 2018 ATOM 2020 ATOM 2022 ATOM 2024 ATOM 2024 ATOM 2027 ATOM 2027 ATOM 2028 ATOM 2030 ATOM 2030	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126 CD1 PHE A 126 CC1 PHE A 126 CZ PHE A 126 CE2 PHE A 126 CD2 PHE A 126 CD0 PHE A 126 C PHE A 127 CA SER A 127 CB SER A 127	46.596 2.460 47.508 2.013 48.137 0.783 47.510 -0.344 46.218 -0.807 45.108 -0.080 43.887 -0.556 43.775 -1.763 44.833 -2.503 46.088 -2.034 49.648 0.852 50.036 1.090 50.476 0.631 51.910 0.385 52.649 1.696	0.469 -1.552 -1.167 -1.926 -1.391 -1.549 -1.063 -0.456 -0.854 -1.465 -2.614 -0.423 -0.466	1.00 39.00 1.00 44.38 1.00 44.03 1.00 40.01 1.00 40.92 1.00 39.27 1.00 42.57 1.00 42.57 1.00 46.82 1.00 47.64 1.00 47.70 1.00 51.19 1.00 54.02	
ATOM 2010 ATOM 2015 ATOM 2016 ATOM 2018 ATOM 2020 ATOM 2022 ATOM 2024 ATOM 2024 ATOM 2027 ATOM 2027 ATOM 2028 ATOM 2030 ATOM 2030 ATOM 2035	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126 CD1 PHE A 126 CE1 PHE A 126 CE2 PHE A 126 CE2 PHE A 126 CD2 PHE A 126 CD PHE A 126 CD PHE A 126 C PHE A 126 C PHE A 126 C PHE A 126 C PHE A 127 CA SER A 127 CB SER A 127 CG SER A 127	46.596 2.460 47.508 2.013 48.137 0.783 47.510 -0.344 46.218 -0.807 45.108 -0.080 43.887 -0.550 43.775 -1.763 44.833 -2.503 46.088 -2.034 49.648 0.855 50.036 1.090 50.476 0.631 51.910 0.385 52.649 1.696 53.034 1.883	0.469 -1.552 -1.167 -1.926 -1.391 -1.549 -1.063 -0.456 -0.371 -0.854 -1.465 -2.614 -0.423 -0.566 -0.466 0.885	1.00 39.00 1.00 44.38 1.00 44.03 1.00 40.01 1.00 40.92 1.00 39.27 1.00 42.75 1.00 42.75 1.00 47.64 1.00 47.70 1.00 51.19 1.00 54.02 1.00 57.27	0 N C C C C C C C C C O N C C O
ATOM 2010 ATOM 2012 ATOM 2015 ATOM 2016 ATOM 2020 ATOM 2022 ATOM 2024 ATOM 2026 ATOM 2026 ATOM 2027 ATOM 2028 ATOM 2030 ATOM 2030 ATOM 2033 ATOM 2035 ATOM 2037	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126 CD1 PHE A 126 CE1 PHE A 126 CE2 PHE A 126 CE2 PHE A 126 CD2 PHE A 126 C PHE A 127 CA SER A 127 CB SER A 127 CG SER A 127 CG SER A 127	46.596 2.460 47.508 2.013 48.137 0.783 47.510 -0.344 46.218 -0.807 45.108 -0.080 43.887 -0.550 43.775 -1.763 44.833 -2.503 46.088 -2.034 49.648 0.852 50.036 1.090 50.476 0.631 51.910 0.385 52.649 1.696 53.034 1.883 52.481 -0.594	0.469 -1.552 -1.167 -1.926 -1.391 -1.549 -1.063 -0.456 -0.371 -1.465 -1.465 -1.465 -1.465 -0.423 -0.566 -0.466 0.885 0.485	1.00 39.00 1.00 44.38 1.00 44.03 1.00 40.01 1.00 40.92 1.00 39.27 1.00 42.75 1.00 42.75 1.00 47.64 1.00 47.70 1.00 51.19 1.00 54.02 1.00 57.27 1.00 51.56	0 N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ATOM 2010 ATOM 2015 ATOM 2016 ATOM 2018 ATOM 2020 ATOM 2022 ATOM 2024 ATOM 2026 ATOM 2027 ATOM 2027 ATOM 2030 ATOM 2030 ATOM 2030 ATOM 2031 ATOM 2033 ATOM 2033 ATOM 2033 ATOM 2033 ATOM 2033	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126 CD1 PHE A 126 CE1 PHE A 126 CZ PHE A 126 CZ PHE A 126 CD2 PHE A 126 CD2 PHE A 126 C PHE A 127 CA SER A 127 CB SER A 127 CG SER A 127 C SER A 127 C SER A 127	46.596 2.460 47.508 2.013 48.137 0.783 47.510 -0.344 46.218 -0.807 45.108 -0.080 43.887 -0.550 43.775 -1.763 44.833 -2.503 46.088 -2.034 49.648 0.852 50.036 1.090 50.476 0.631 51.910 0.385 52.649 1.696 53.034 1.883 52.481 -0.594 52.047 -0.628	0.469 -1.552 -1.167 -1.926 -1.391 -1.549 -1.063 -0.456 -0.371 -0.854 -1.465 -1.465 -1.465 -0.423 -0.566 -0.466 0.885 0.485 1.604	1.00 39.00 1.00 44.38 1.00 44.03 1.00 40.01 1.00 40.92 1.00 39.27 1.00 42.57 1.00 42.57 1.00 42.57 1.00 47.64 1.00 47.70 1.00 51.19 1.00 54.02 1.00 57.27 1.00 51.56 1.00 49.36	0 N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ATOM 2010 ATOM 2012 ATOM 2015 ATOM 2016 ATOM 2020 ATOM 2022 ATOM 2024 ATOM 2026 ATOM 2026 ATOM 2027 ATOM 2028 ATOM 2030 ATOM 2030 ATOM 2033 ATOM 2035 ATOM 2037	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126 CD1 PHE A 126 CE1 PHE A 126 CE2 PHE A 126 CE2 PHE A 126 CD2 PHE A 126 C PHE A 127 CA SER A 127 CB SER A 127 CG SER A 127 C SER A 127	46.596 2.460 47.508 2.013 48.137 0.783 47.510 -0.344 46.218 -0.807 45.108 -0.080 43.887 -0.550 43.775 -1.763 44.833 -2.503 46.088 -2.034 49.648 0.852 50.036 1.090 50.476 0.631 51.910 0.385 52.649 1.696 53.034 1.883 52.481 -0.594	0.469 -1.552 -1.167 -1.926 -1.391 -1.549 -1.063 -0.456 -0.371 -0.854 -1.465 -1.465 -1.465 -0.423 -0.566 -0.466 0.885 0.485 1.604	1.00 39.00 1.00 44.38 1.00 44.03 1.00 40.01 1.00 40.92 1.00 39.27 1.00 42.75 1.00 42.75 1.00 47.64 1.00 47.70 1.00 51.19 1.00 54.02 1.00 57.27 1.00 51.56	0 N C C C C C C C C C O N C C O C
ATOM 2010 ATOM 2015 ATOM 2016 ATOM 2018 ATOM 2020 ATOM 2022 ATOM 2024 ATOM 2026 ATOM 2027 ATOM 2027 ATOM 2030 ATOM 2030 ATOM 2030 ATOM 2031 ATOM 2033 ATOM 2033 ATOM 2033 ATOM 2033 ATOM 2033	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126 CD1 PHE A 126 CE1 PHE A 126 CZ PHE A 126 CZ PHE A 126 CD2 PHE A 126 CD2 PHE A 126 C PHE A 127 CA SER A 127 CB SER A 127 CG SER A 127 C SER A 127 C SER A 127	46.596 2.460 47.508 2.013 48.137 0.783 47.510 -0.344 46.218 -0.807 45.108 -0.080 43.887 -0.550 43.775 -1.763 44.833 -2.503 46.088 -2.034 49.648 0.852 50.036 1.090 50.476 0.631 51.910 0.385 52.649 1.696 53.034 1.883 52.481 -0.594 52.047 -0.628 53.468 -1.393	0.469 -1.552 -1.167 -1.926 -1.391 -1.549 -1.063 -0.456 -0.371 -0.854 -1.465 -2.614 -0.423 -0.566 -0.466 0.885 0.485 1.604 0.078	1.00 39.00 1.00 44.38 1.00 44.03 1.00 40.01 1.00 40.92 1.00 39.27 1.00 42.57 1.00 42.57 1.00 42.57 1.00 47.64 1.00 47.70 1.00 51.19 1.00 54.02 1.00 57.27 1.00 51.56 1.00 49.36 1.00 54.77	0 N C C C C C C C C C O O N C O O O O O O
ATOM 2010 ATOM 2015 ATOM 2016 ATOM 2018 ATOM 2020 ATOM 2022 ATOM 2022 ATOM 2026 ATOM 2027 ATOM 2027 ATOM 2030 ATOM 2030 ATOM 2030 ATOM 2031 ATOM 2032 ATOM 2033	N PHE A 126 CA PHE A 126 CB PHE A 126 CG PHE A 126 CD1 PHE A 126 CE1 PHE A 126 CZ PHE A 126 CZ PHE A 126 CD2 PHE A 126 CD2 PHE A 126 C PHE A 127 CA SER A 127 CB SER A 127 CG SER A 127 CG SER A 127 C SER A 127 N ASN A 128	46.596 2.460 47.508 2.013 48.137 0.783 47.510 -0.344 46.218 -0.807 45.108 -0.080 43.887 -0.550 43.775 -1.763 44.833 -2.503 46.088 -2.034 49.648 0.852 50.036 1.090 50.476 0.631 51.910 0.385 52.649 1.696 53.034 1.883 52.481 -0.594 52.047 -0.628 53.468 -1.393	0.469 -1.552 -1.167 -1.926 -1.391 -1.549 -1.063 -0.456 -0.371 -0.854 -1.465 -1.465 -0.423 -0.566 -0.466 0.885 0.485 1.604 0.078 0.968	1.00 39.00 1.00 44.38 1.00 44.03 1.00 40.01 1.00 40.92 1.00 39.27 1.00 42.57 1.00 42.57 1.00 42.57 1.00 47.64 1.00 47.70 1.00 51.19 1.00 54.02 1.00 57.27 1.00 51.56 1.00 49.36	0 N C C C C C C C C C O N C C O C O

ATOM 2046	CC	7. CINT 7.	120	56.046	0 407	1 007	1 00 00 17	C
	CG	ASN A			-0.407	1.097	1.00 62.17	C
ATOM 2047		ASN A		57.182	-0.758	0.790	1.00 66.14	0
ATOM 2048	ND2	ASN A	. 128	55.556	0.817	0.799	1.00 58.01	N
ATOM 2051	С	ASN A	. 128	53.402	-3.228	1.755	1.00 54.35	С
ATOM 2052	0	ASN A		53.461	-3.340	2.990	1.00 53.42	0
ATOM 2053	N	ASN A		52.624	-3.990	0.999	1.00 53.03	N
ATOM 2055	CA	ASN A	. 129	51.809	-5.034	1.562	1.00 51.72	С
ATOM 2057	$^{\mathrm{CB}}$	ASN A	. 129	50.355	-4.712	1.281	1.00 48.91	С
ATOM 2060	CG	ASN A	129	49.950	-3.386	1.877	1.00 48.71	С
ATOM 2061		ASN A		49.956	-3.219	3.097	1.00 46.84	Ö
ATOM 2062		ASN A		49.620	-2.425	1.021	1.00 49.70	N
ATOM 2065	С	ASN A	. 129	52.142	-6.394	0.988	1.00 53.27	C
ATOM 2066	0	ASN A	. 129	51.301	-6.990	0.376	1.00 52.88	0
ATOM 2067	N	PRO A	130	53.322	-6.931	1.248	1.00 55.86	N
ATOM 2068	CA	PRO A		53.849				Ċ
					-8.030	0.441	1.00 58.30	
ATOM 2070	CB	PRO A		55.334	-8.067	0.806	1.00 61.57	С
ATOM 2073	CG	PRO A	. 130	55.422	-7.439	2.170	1.00 61.58	C
ATOM 2076	CD	PRO A	. 130	54.194	-6.614	2.386	1.00 57.72	С
ATOM 2079	С	PRO A		53.194	-9.378	0.718	1.00 58.29	С
ATOM 2080	Ö	PRO A						Ö
					-10.382	0.197	1.00 60.97	
ATOM 2081	N	ALA A		52.151	-9.438	1.513	1.00 55.73	N
ATOM 2083	CA	ALA A	. 131	51.452	-10.692	1.621	1.00 54.80	C
ATOM 2085	CB	ALA A	. 131	51.407	-11.073	3.006	1.00 54.50	C
ATOM 2089	C	ALA A	131		-10.559	1.046	1.00 52.04	С
ATOM 2090	Ö	ALA A			-11.499			
						1.010	1.00 52.22	0
ATOM 2091	N	LEU A	. 132	49.731	-9.399	0.527	1.00 50.22	N
ATOM 2093	CA	LEU A	. 132	48.347	-9.100	0.235	1.00 48.25	С
ATOM 2095	CB	LEU A	. 132	48.111	-7.577	0.094	1.00 46.58	C
ATOM 2098	CG	LEU A		46.693	-7.049	-0.140	1.00 42.72	Ċ
ATOM 2100								
		LEU A		45.792	-7.428	0.981	1.00 41.93	C
ATOM 2104	CD2	LEU A	. 132	46.701	-5.522	-0.330	1.00 41.41	С
ATOM 2108	С	LEU A	. 132	47.923	-9.826	-1.003	1.00 49.53	С
ATOM 2109	0	LEU A	132	48.735	-10.093	-1.883	1.00 51.28	0
ATOM 2110	N	CYS A			-10.148	-1.031	1.00 49.32	N
ATOM 2112	CA	CYS A			-10.944			
						-2.085	1.00 51.07	C
ATOM 2114	CB	CYS A			-12.286	-1.533	1.00 51.93	С
ATOM 2117	sg	CYS A	133	47.113	-13.311	-1.525	1.00 58.93	S
ATOM 2118	С	CYS A	133	44.814	-10.287	-2.732	1.00 49.03	C
ATOM 2119	0	CYS A			-9.538	-2.070	1.00 47.78	0
ATOM 2120	N	ASN A			-10.569			
						-4.026	1.00 48.89	N
ATOM 2122	CA	ASN A			-10.312	-4.800	1.00 47.55	С
ATOM 2124	CB	ASN A	134	42.304	-11.082	-4.237	1.00 46.96	C
ATOM 2127	CG	ASN A	134	42.563	-12.593	-4.084	1.00 49.52	C
ATOM 2128	OD1	ASN A	134	42.816	-13.265	-5.038	1.00 51.07	0
ATOM 2129		ASN A			-13.112	-2.870	1.00 48.52	И
ATOM 2132	С	ASN A			-8.832	-5.039	1.00 45.92	C
ATOM 2133	0	ASN A		42.597	-8.494	-6.061	1.00 45.65	0
ATOM 2134	N	VAL A	135	43.530	-7.933	-4.135	1.00 45.56	N
ATOM 2136	CA	VAL A	135	42.985	-6.552	-4.156	1.00 43.82	C
ATOM 2138	CB	VAL A		43.400	-5.780	-2.932	1.00 42.47	C
ATOM 2140		VAL A						
				43.037	-4.266	-3.017	1.00 41.77	C
ATOM 2144	CG2	VAL A	135	42.786	-6.384	-1.737	1.00 41.35	C
ATOM 2148	С	VAL A	135	43.493	-5.880	-5.431	1.00 45.40	С
ATOM 2149	O	VAL A	135	42.723	-5.205	-6.070	1.00 45.40	0
ATOM 2150	N	GLU A		44.755	-6.158	-5.796	1.00 46.87	Ŋ
ATOM 2152	CA	GLU A		45.404	-5.750	-7.035	1.00 49.44	C
ATOM 2154	CB	GLU A		46.677	-6.586	-7.316	1.00 52.90	С
ATOM 2157	CG	GLU A	136	47.654	-6.085	-8.413	1.00 57.64	C
ATOM 2160	CD	GLU A	136	48.784	-7.097	-8.714	1.00 66.03	С
ATOM 2161		GLU A		49.015	-7.981	-7.798	1.00 68.30	Ö
ATOM 2162		GLU A		49.415	-7.041	-9.837	1.00 70.61	0
ATOM 2163	С	GLU A		44.526	-5.895	-8.238	1.00 50.26	C
ATOM 2164	0	GLU A	136	44.781	-5.226	-9.234	1.00 52.27	0
ATOM 2165	N	SER A		43.516	-6.745	-8.189	1.00 49.34	N
ATOM 2167	CA	SER A		42.673	-6.934	-9.365	1.00 51.02	C
ATOM 2169	CB	SER A		42.120	-8.342	-9.390	1.00 51.77	C
ATOM 2172	OG	SER A		41.372	-8.537	-8.213	1.00 49.79	0
ATOM 2174	C	SER A	137	41.521	-5.953	-9.408	1.00 49.35	C

ATOM 2175 O SER A 137	O N C
ATOM 2176 N ILE A 138 41.427 -5.128 -8.420 1.00 47.68 ATOM 2178 CA ILE A 138 40.207 -4.429 -8.272 1.00 47.46 ATOM 2180 CB ILE A 138 39.947 -4.236 -6.830 1.00 45.92 ATOM 2182 CG1 ILE A 138 39.161 -5.479 -6.402 1.00 50.04 ATOM 2185 CD1 ILE A 138 38.907 -5.482 -4.979 1.00 52.31 ATOM 2189 CG2 ILE A 138 39.130 -3.036 -6.535 1.00 44.29	N
ATOM 2178 CA ILE A 138	
ATOM 2180 CB ILE A 138 39.947 -4.236 -6.830 1.00 45.92 ATOM 2182 CG1 ILE A 138 39.161 -5.479 -6.402 1.00 50.04 ATOM 2185 CD1 ILE A 138 38.907 -5.482 -4.979 1.00 52.31 ATOM 2189 CG2 ILE A 138 39.130 -3.036 -6.535 1.00 44.29	C
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ATOM 2193 C ILE A 138 40.270 -3.168 -9.014 1.00 48.13	
	C
ATOM 2194 O ILE A 138 41.305 -2.535 -9.060 1.00 49.23	0
ATOM 2195 N GLN A 139 39.110 -2.834 -9.567 1.00 48.49	N
ATOM 2197 CA GLN A 139 38.826 -1.708 -10.439 1.00 48.81	C
ATOM 2199 CB GLN A 139 37.724 -2.104 -11.446 1.00 50.08	Ċ
ATOM 2202 CG GLN A 139 38.234 -3.051 -12.588 1.00 52.30	C
ATOM 2205 CD GLN A 139 37.175 -3.535 -13.588 1.00 54.29	C
ATOM 2206 OE1 GLN A 139 36.906 -2.864 -14.560 1.00 59.63	0
ATOM 2207 NE2 GLN A 139 36.617 -4.708 -13.361 1.00 52.60	N
ATOM 2210 C GLN A 139 38.326 -0.553 -9.603 1.00 48.02	С
ATOM 2211 O GLN A 139 37.130 -0.409 -9.361 1.00 48.86	0
ATOM 2212 N TRP A 140 39.238 0.279 -9.138 1.00 47.32	N
ATOM 2214 CA TRP A 140 38.876 1.416 -8.309 1.00 45.95	C
ATOM 2216 CB TRP A 140 40.180 2.000 -7.785 1.00 46.14	С
ATOM 2219 CG TRP A 140 40.885 0.963 -6.994 1.00 46.00	С
	C
ATOM 2222 NE1 TRP A 140 42.183 -0.754 -6.450 1.00 52.24	N
ATOM 2224 CE2 TRP A 140 41.481 -0.469 -5.318 1.00 45.13	C
ATOM 2225 CD2 TRP A 140 40.644 0.601 -5.619 1.00 46.06	C
ATOM 2226 CE3 TRP A 140 39.843 1.122 -4.603 1.00 47.07	С
ATOM 2228 CZ3 TRP A 140 39.902 0.531 -3.331 1.00 46.32	C
ATOM 2230 CH2 TRP A 140 40.751 -0.540 -3.099 1.00 44.90	C
ATOM 2232 CZ2 TRP A 140 41.559 -1.032 -4.085 1.00 44.06	C
ATOM 2234 C TRP A 140 37.958 2.468 -8.988 1.00 46.64	С
ATOM 2235 O TRP A 140 37.156 3.152 ~8.417 1.00 47.16	0
ATOM 2236 N ARG A 141 38.039 2.549 -10.251 1.00 49.56	N
ATOM 2238 CA ARG A 141 37.281 3.487 -11.006 1.00 51.70	C
ATOM 2240 CB ARG A 141 37.690 3.287 ~12.479 1.00 54.96	С
ATOM 2243 CG ARG A 141 37.314 4.259 -13.453 1.00 59.89	C
ATOM 2246 CD ARG A 141 37.332 3.683 -14.883 1.00 68.80	С
ATOM 2249 NE ARG A 141 36.925 4.702 -15.900 1.00 76.88	N
ATOM 2251 CZ ARG A 141 36.168 4.420 -16.981 1.00 79.58	С
ATOM 2252 NH1 ARG A 141 35.680 3.165 -17.156 1.00 77.54	Ŋ
ATOM 2255 NH2 ARG A 141 35.910 5.388 -17.889 1.00 83.87	N
ATOM 2258 C ARG A 141 35.805 3.315 -10.714 1.00 51.04	С
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ATOM 2259 O ARG A 141 35.077 4.284 -10.763 1.00 52.62	0
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ATOM 2260 N ASP A 142 35.337 2.129 -10.354 1.00 50.38	N
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ATOM	2311	СВ	SER	Α	145	34.926	10.760	-6.750	1.00	54.47	С
ATOM	2314	OG			145	34.427	11.741			59.24	Ö
MOTA	2316	C	SER	Α	145	36.287	9.966	-8.735		56.23	C
	2317	0			145	37.469	10.176			55.05	O
	2318	N			146	35.814	10.152			58.67	N
	2320	CA			146	36.764		-10.927		61.98	C
	2322	CB			146	36.061		-12.244		65.22	C
	2325	OG			146	35.229		-12.148		69.73	Ö
	2327	С			146	37.586		-10.591		63.73	C
	2328	0			146	38.718		-11.061		66.06	0
	2329	N			147	37.110	12.782	-9.776	1.00		N
	2331	CA			147	38.047	13.855	-9.448	1.00		C
	2333	CB			147	37.388	14.938	-8.643		65.88	C
ATOM	2336	CG	ASP	Α	147	36.191	15.484	-9.315		70.56	Ċ
	2337		ASP			36.324		-10.449		76.86	0
	2338		ASP			35.062	15.475	-8.799		74.60	Ō
	2339	С			147	39.320	13.451	-8.694		61.87	Ċ
	2340	0			147	40.181	14.271	-8.574		64.00	ō
	2341	N			148	39.443	12.235	-8.160		58.00	И
ATOM	2343	CA			148	40.589	11.831	-7.323		55.65	C
	2345	CB			148	40.100	11.392	-5.912		52.67	Č
ATOM	2348	CG	PHE	Α	148	39.418	12.463	-5.124		52.51	C
	2349		PHE			38.059	12.760	-5.313		55.87	Č
ATOM	2351		PHE			37.408	13.812	-4.627		53.04	C
ATOM	2353	CZ	PHE	Α	148	38.100	14.471	-3.764		53.77	C
ATOM	2355	CE2	PHE	Α	148	39.466	14.202	-3.553		50.27	C
ATOM	2357		PHE			40.105	13.203	-4.221	1.00	53.15	С
ATOM	2359	С	PHE	Α	148	41.411	10.674	-7.958		55.84	C
ATOM	2360	0	PHE	Α	148	42.390	10.172	-7.375	1.00	54.76	0
MOTA	2361	N	LEU	Α	149	40.992	10.208	-9.141	1.00	57.46	N
ATOM	2363	CA	LEU	Α	149	41.756	9.207	-9.902	1.00	57.20	C
ATOM	2365	CB	LEU	Α	149	41.124	8.951	-11.285	1.00	58.59	C
ATOM		CG	LEU	Α	149	39.781		-11.362	1.00	57.42	C
ATOM			LEU			39.542	7.556	-12.713	1.00	59.65	C
MOTA			LEU			39.590		-10.313	1.00	54.35	C
ATOM		C			149	43.154		-10.028		59.44	C
MOTA		0			149	44.122	9.110	-9.706		57.88	0
ATOM		N			150	43.237		-10.427		63.31	N
ATOM		CA	SER			44.517		-10.439		65.95	C
ATOM ATOM		CB OG	SER			44.345		-10.848		69.04	C
ATOM		C	SER SER			44.468 45.359	11.553	-12.260		74.02	0
ATOM		0			150	46.550	11.630	-9.165 -9.276		64.15	С
ATOM		И	ASN			44.802	11.413	-7.962		66.94 60.55	O N
ATOM		CA	ASN			45.676	11.373	-6.785		59.05	C C
MOTA		CB	ASN			45.280	12.526	-5.824		58.72	Č
ATOM		CG	ASN			45.979	13.869	-6.202		65.21	Č
ATOM			ASN			45.616	14.591	-7.128	1.00		Ö
MOTA			ASN			47.026	14.157	-5.506		72.90	N
MOTA	2403	С	ASN	Α	151	45.879	9.943	-6.181	1.00		C
MOTA	2404	0	ASN	Α	151	46.471	9.774	-5.128	1.00	53.43	0
MOTA	2405	N	MET	A	152	45.499	8.901	-6.932	1.00	54.65	И
MOTA	2407	CA	MET	A	152	45.653	7.496	-6.467	1.00	52.66	C
MOTA	2409	CB	MET	Α	152	44.910	6.533	-7.366	1.00	51.86	С
MOTA	2412	CG	MET			43.443	6.813	-7.552	1.00	52.03	C
MOTA		SD	MET			42.338	6.049	-6.388	1.00	50.06	S
MOTA		CE	MET			42.743	4.273	-6.557	1.00		C
MOTA		С	MET			47.124	7.024	-6.371	1.00		C
MOTA		0	MET			47.951	7.492	-7.134	1.00		0
MOTA		N	SER			47.449	6.144	-5.399	1.00		И
MOTA		CA	SER			48.828	5.589	-5.246	1.00		C
MOTA		CB	SER			49.601	6.341	-4.187	1.00		C
MOTA MOTA		OG C	SER			50.968	6.247	-4.512	1.00		0
ATOM		0	SER SER			48.953	4.069	-4.949 -3.817	1.00		C
ATOM		N	MET			49.268 48.749	3.659 3.276	-3.817 -5.995	1.00		O N
ATOM		CA	MET			48.749	1.862	-5.893	1.00		N C
ATOM		CB	MET			47.455	1.440	-6.811	1.00		C
								0.011			C

ATOM 2440	CC MED :	A 154	46.216 2.318	C CEC	1.00 50.89	S
				-6.656		C
ATOM 2443		A 154	45.282 1.929	-5.148	1.00 58.01	S
ATOM 2444	CE MET 2	A 154	45.749 3.387	-4.448	1.00 57.15	C
ATOM 2448	C MET 2	A 154	49.802 1.157	-6.255	1.00 52.92	С
ATOM 2449		A 154	50.276 1.278	-7.330	1.00 54.18	Ō
ATOM 2450		A 155	50.346 0.414	-5.315	1.00 53.59	N
ATOM 2452	CA ASP A	A 155	51.559 -0.296	-5.564	1.00 57.73	C
ATOM 2454	CB ASP A	155	52.786 0.526	-5.195	1.00 60.70	C
ATOM 2457	CG ASP A	155	54.088 -0.300	-5.273	1.00 67.99	С
ATOM 2458	OD1 ASP A		54.469 -0.830	-6.389	1.00 70.11	
						0
ATOM 2459	OD2 ASP A		54.773 -0.487	-4.215	1.00 74.44	0
ATOM 2460	C ASP A	A 155	51.489 -1.670	-4.882	1.00 56.85	С
ATOM 2461	O ASP A	155	51.675 -1.845	-3.662	1.00 55.16	0
ATOM 2462		156	51.232 -2.651	-5.733	1.00 57.62	Ň
ATOM 2464						
		156	50.904 -3.965	-5.298	1.00 57.25	C
ATOM 2466	CB PHE A	156	49.701 - 4.410	-6.080	1.00 55.63	C
ATOM 2469	CG PHE A	156	48.424 -3.817	-5.645	1.00 51.82	C
ATOM 2470	CD1 PHE A	156	47.824 -2.852	-6.408	1.00 48.57	C
ATOM 2472	CE1 PHE A		46.643 -2.329	-6.067	1.00 48.09	Ċ
ATOM 2474		156	46.005 -2.746	-4.921	1.00 49.29	C
ATOM 2476	CE2 PHE A	156	46.573 -3.759	-4.128	1.00 49.85	C
ATOM 2478	CD2 PHE A	156	47.775 -4.298	-4.513	1.00 51.25	C
ATOM 2480	C PHE A		52.031 -4.922	-5.663	1.00 62.02	C
ATOM 2481	O PHE A		52.258 -5.121	-6.862	1.00 65.96	0
ATOM 2482	N GLN A		52.711 -5.558	-4.693	1.00 63.64	N
ATOM 2484	CA GLN A	157	53.730 -6.585	-5.019	1.00 67.83	С
ATOM 2486	CB GLN A	157	55.158 -6.019	-5.121	1.00 71.20	C
ATOM 2489	CG GLN A		55.232 -4.741	-5.955	1.00 74.76	Č
ATOM 2492	CD GLN A		56.512 -3.922	-5.738	1.00 81.43	С
ATOM 2493	OE1 GLN A	157	57.596 -4.501	-5.524	1.00 84.93	O
ATOM 2494	NE2 GLN A	157	56.394 -2.570	-5.832	1.00 80.80	И
ATOM 2497	C GLN A	157	53.694 -7.701	-3.995	1.00 67.85	С
ATOM 2498	O GLN A		54.239 -7.549			
				-2.884	1.00 68.89	0
ATOM 2499	n Asn A		53.049 -8.824	-4.343	1.00 67.34	N
ATOM 2501	CA ASN A	158	52.985 -9.931	-3.387	1.00 66.37	С
ATOM 2503	CB ASN A	158	51.748 -10.825	-3.573	1.00 65.25	С
ATOM 2506	CG ASN A		51.555 -11.805	-2.408	1.00 65.80	C
ATOM 2507	OD1 ASN A		52.434 -12.615	-2.126	1.00 69.30	0
ATOM 2508	ND2 ASN A	158	50.396 -11.749	-1.760	1.00 62.84	И
ATOM 2511	C ASN A	158	54.252 -10.683	-3.607	1.00 68.88	С
ATOM 2512	O ASN A	158	54.482 -11.075	-4.714	1.00 71.15	0
ATOM 2513			011100 221010			
	M HTG Z	150	55 079 -10 769	-2 562	1 00 69 92	
	N HIS A		55.079 -10.768	-2.562	1.00 68.92	И
ATOM 2515	CA HIS A	159	56.367 -11.474	-2.511	1.00 72.75	N C
		159				И
ATOM 2515	CA HIS A	159 159	56.367 -11.474 57.529 -10.454	-2.511 -2.416	1.00 72.75 1.00 74.34	N C C
ATOM 2515 ATOM 2517 ATOM 2525	CA HIS A CB HIS A C HIS A	159 159 159	56.367 -11.474 57.529 -10.454 56.430 -12.503	-2.511 -2.416 -1.321	1.00 72.75 1.00 74.34 1.00 73.55	и С С
ATOM 2515 ATOM 2517 ATOM 2525 ATOM 2526	CA HIS A CB HIS A C HIS A O HIS A	159 159 159 159	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106	-2.511 -2.416 -1.321 -1.060	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25	N C C C
ATOM 2515 ATOM 2517 ATOM 2525 ATOM 2526 ATOM 2527	CA HIS A CB HIS A C HIS A O HIS A N LEU A	159 159 159 159 159	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726	-2.511 -2.416 -1.321 -1.060 -0.620	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71	и С С О И
ATOM 2515 ATOM 2517 ATOM 2525 ATOM 2526 ATOM 2527 ATOM 2529	CA HIS A CB HIS A C HIS A O HIS A	159 159 159 159 159	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613	-2.511 -2.416 -1.321 -1.060	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25	N C C C
ATOM 2515 ATOM 2517 ATOM 2525 ATOM 2526 ATOM 2527	CA HIS A CB HIS A C HIS A O HIS A N LEU A	159 159 159 159 159 160	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726	-2.511 -2.416 -1.321 -1.060 -0.620	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71	и С С О И
ATOM 2515 ATOM 2517 ATOM 2525 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531	CA HIS A CB HIS A C HIS A O HIS A N LEU A CA LEU A CB LEU A	159 159 159 159 160 160	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 69.16	N C C O N C C
ATOM 2515 ATOM 2517 ATOM 2525 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534	CA HIS A CB HIS A C HIS A O HIS A N LEU A CA LEU A CB LEU A CG LEU A	159 159 159 159 160 160 160 160	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 69.16 1.00 72.49	N C C O N C C C
ATOM 2515 ATOM 2517 ATOM 2525 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2536	CA HIS A CB HIS A C HIS A O HIS A N LEU A CA LEU A CB LEU A CG LEU A CD1 LEU A	159 159 159 159 160 160 160 160 160	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 69.16 1.00 72.49 1.00 70.29	N C C O N C C C
ATOM 2515 ATOM 2517 ATOM 2525 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2536 ATOM 2540	CA HIS A CB HIS A C HIS A O HIS A N LEU A CA LEU A CB LEU A CG LEU A CD1 LEU A CD2 LEU A	159 159 159 159 160 160 160 160 160 160	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038 57.406 -12.963	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417 2.560	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 69.16 1.00 72.49 1.00 70.29 1.00 78.18	N C C C O N C C C C
ATOM 2515 ATOM 2517 ATOM 2525 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2536	CA HIS A CB HIS A C HIS A O HIS A N LEU A CA LEU A CB LEU A CG LEU A CD1 LEU A	159 159 159 159 160 160 160 160 160 160	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 69.16 1.00 72.49 1.00 70.29	N C C O N C C C
ATOM 2515 ATOM 2517 ATOM 2525 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2536 ATOM 2540	CA HIS A CB HIS A C HIS A O HIS A N LEU A CA LEU A CB LEU A CG LEU A CD1 LEU A CD2 LEU A	159 159 159 160 160 160 160 160 160 160 160	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038 57.406 -12.963	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417 2.560	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 69.16 1.00 72.49 1.00 70.29 1.00 78.18	N C C C O N C C C C
ATOM 2515 ATOM 2517 ATOM 2526 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2536 ATOM 2540 ATOM 2544 ATOM 2545	CA HIS A CB HIS A C HIS A O HIS A CA LEU A CB LEU A CG LEU A CD1 LEU A CD2 LEU A C LEU A C LEU A	159 159 159 160 160 160 160 160 160 160 160 160	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038 57.406 -12.963 54.436 -14.860 54.715 -15.905	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417 2.560 0.466 1.146	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 69.16 1.00 72.49 1.00 70.29 1.00 78.18 1.00 72.80 1.00 76.27	N C C C C C C C C C C C C C C C C C C C
ATOM 2515 ATOM 2517 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2536 ATOM 2540 ATOM 2544 ATOM 2545 ATOM 2546	CA HIS A CB HIS A C HIS A O HIS A CA LEU A CB LEU A CG LEU A CD1 LEU A CD2 LEU A CD2 LEU A CD4 LEU A CD4 LEU A CD5 LEU A CD6 LEU A CD7 LEU A	159 159 159 159 160 160 160 160 160 160 160 160 160 160	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038 57.406 -12.963 54.436 -14.860 54.715 -15.905 53.426 -14.830	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417 2.560 0.466 1.146 -0.387	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 69.16 1.00 72.49 1.00 70.29 1.00 78.18 1.00 72.80 1.00 76.27 1.00 70.92	N C C C C C C C C C C C C C C C C C C C
ATOM 2515 ATOM 2525 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2534 ATOM 2546 ATOM 2546 ATOM 2546 ATOM 2546 ATOM 2548	CA HIS A CB HIS A C HIS A O HIS A N LEU A CA LEU A CB LEU A CD1 LEU A CD2 LEU A CD L	159 159 159 159 160 160 160 160 160 160 160 160 160 160	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038 57.406 -12.963 54.436 -14.860 54.715 -15.905 53.426 -14.830 52.682 -16.052	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417 2.560 0.466 1.146 -0.387 -0.588	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 69.16 1.00 70.29 1.00 78.18 1.00 72.80 1.00 76.27 1.00 70.92 1.00 70.92 1.00 71.53	N C C C C C C C C C C C
ATOM 2515 ATOM 2525 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2536 ATOM 2540 ATOM 2540 ATOM 2545 ATOM 2545 ATOM 2546 ATOM 2548 ATOM 2551	CA HIS A CB HIS A C HIS A O HIS A N LEU A CA LEU A CB LEU A CD1 LEU A CD2 LEU A CD2 LEU A O LEU A	159 159 159 159 160 160 160 160 160 160 160 160 160 160	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038 57.406 -12.963 54.436 -14.860 54.715 -15.905 53.426 -14.830 52.682 -16.052 52.337 -16.324	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417 2.560 0.466 1.146 -0.387 -0.588 -2.010	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 69.16 1.00 70.29 1.00 78.18 1.00 72.80 1.00 76.27 1.00 70.92 1.00 70.92 1.00 71.53 1.00 72.10	N C C C C C C C C C C C C C C C C C C C
ATOM 2515 ATOM 2525 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2534 ATOM 2546 ATOM 2546 ATOM 2546 ATOM 2546 ATOM 2548	CA HIS A CB HIS A C HIS A O HIS A N LEU A CA LEU A CB LEU A CD1 LEU A CD2 LEU A CD L	159 159 159 159 160 160 160 160 160 160 160 160 160 160	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038 57.406 -12.963 54.436 -14.860 54.715 -15.905 53.426 -14.830 52.682 -16.052	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417 2.560 0.466 1.146 -0.387 -0.588	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 69.16 1.00 70.29 1.00 78.18 1.00 72.80 1.00 76.27 1.00 70.92 1.00 70.92 1.00 71.53	N C C C C C C C C C C C
ATOM 2515 ATOM 2525 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2536 ATOM 2540 ATOM 2540 ATOM 2545 ATOM 2545 ATOM 2546 ATOM 2548 ATOM 2551	CA HIS A CB HIS A C HIS A O HIS A N LEU A CA LEU A CB LEU A CD1 LEU A CD2 LEU A CD2 LEU A CD4 LEU A CD4 LEU A CD6 LEU A CD7 LE	159 159 159 160 160 160 160 160 160 160 160 160 160	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038 57.406 -12.963 54.436 -14.830 54.715 -15.905 53.426 -14.830 52.682 -16.052 52.337 -16.324 52.925 -15.725	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417 2.560 0.466 1.146 -0.387 -0.598 -2.010 -2.936	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 69.16 1.00 70.29 1.00 78.18 1.00 72.80 1.00 76.27 1.00 70.92 1.00 70.92 1.00 73.91	
ATOM 2515 ATOM 2525 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2540 ATOM 2540 ATOM 2545 ATOM 2545 ATOM 2545 ATOM 2545 ATOM 2546 ATOM 2546 ATOM 2548 ATOM 2551 ATOM 2552 ATOM 2553	CA HIS A CB HIS A O HIS A N LEU A CA LEU A CB LEU A CD1 LEU A CD2 LEU A CD LEU A C C LEU A C LEU A C G LEU A C G LEU A C G LEU A N GLY A C GLY A C GLY A N SER A	159 159 159 160 160 160 160 160 160 160 160 160 160	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038 57.406 -12.963 54.436 -14.860 54.715 -15.905 53.426 -14.830 52.682 -16.052 52.337 -16.324 52.925 -15.725 51.354 -17.218	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417 2.560 0.466 1.146 -0.387 -0.588 -2.010 -2.936 -2.151	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 72.49 1.00 70.29 1.00 78.18 1.00 76.27 1.00 76.27 1.00 70.92 1.00 70.92 1.00 73.91 1.00 73.91 1.00 71.50	N C C C C C C C C C O N C C O N C C O N O N
ATOM 2515 ATOM 2527 ATOM 2527 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2540 ATOM 2544 ATOM 2544 ATOM 2546 ATOM 2546 ATOM 2546 ATOM 2546 ATOM 2551 ATOM 2551 ATOM 2553 ATOM 2555	CA HIS A CB HIS A O HIS A O HIS A CA LEU A CB LEU A CG LEU A CD1 LEU A CD2 LEU A CD LEU A C LEU A C LEU A O LEU A O LEU A O GLY A O GLY A O GLY A CA GLY A C	159 159 159 160 160 160 160 160 160 160 160 160 160	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038 57.406 -12.963 54.436 -14.860 54.715 -15.905 53.426 -14.830 52.682 -16.052 52.337 -16.324 52.925 -15.725 51.354 -17.218 50.850 -17.612	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417 2.560 0.466 1.146 -0.387 -0.588 -2.010 -2.936 -2.151 -3.430	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 72.49 1.00 70.29 1.00 78.18 1.00 76.27 1.00 76.27 1.00 70.92 1.00 70.92 1.00 73.91 1.00 73.91 1.00 71.50 1.00 71.80	N C C C C C C C C C C C C O N C C C O N C C O N C O O N C O O O N O O N O O N O O N O O N O O N O O N O O N O O N O
ATOM 2515 ATOM 2527 ATOM 2527 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2536 ATOM 2540 ATOM 2544 ATOM 2546 ATOM 2546 ATOM 2546 ATOM 2546 ATOM 2551 ATOM 2551 ATOM 2553 ATOM 2555 ATOM 2555	CA HIS A CB HIS A C HI	159 159 159 160 160 160 160 160 160 160 160 160 160	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038 57.406 -12.963 54.436 -14.860 54.715 -15.905 53.426 -14.830 52.682 -16.052 52.337 -16.324 52.925 -15.725 51.354 -17.218 50.850 -17.612 51.072 -19.072	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417 2.560 0.466 1.146 -0.387 -0.588 -2.010 -2.936 -2.151 -3.430 -3.631	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 72.49 1.00 70.29 1.00 78.18 1.00 72.80 1.00 76.27 1.00 76.27 1.00 70.92 1.00 73.91 1.00 71.50 1.00 71.80 1.00 75.27	и с с с с с с с с о и с с о и с с о и с о и о
ATOM 2515 ATOM 2527 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2536 ATOM 2540 ATOM 2544 ATOM 2545 ATOM 2546 ATOM 2546 ATOM 2551 ATOM 2551 ATOM 2553 ATOM 2553 ATOM 2555 ATOM 2557 ATOM 2557	CA HIS A CB HIS A O HIS A O HIS A CA LEU A CB LEU A CG LEU A CD1 LEU A CD2 LEU A CD LEU A C LEU A C LEU A O LEU A O LEU A O GLY A O GLY A O GLY A CA GLY A C	159 159 159 160 160 160 160 160 160 160 160 160 160	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038 57.406 -12.963 54.436 -14.860 54.715 -15.905 53.426 -14.830 52.682 -16.052 52.337 -16.324 52.925 -15.725 51.354 -17.218 50.850 -17.612 51.072 -19.072 49.976 -19.671	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417 2.560 0.466 1.146 -0.387 -0.588 -2.010 -2.936 -2.151 -3.430	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 72.49 1.00 70.29 1.00 78.18 1.00 76.27 1.00 76.27 1.00 70.92 1.00 70.92 1.00 73.91 1.00 73.91 1.00 71.50 1.00 71.80	N C C C C C C C C C C C C C C C C C C C
ATOM 2515 ATOM 2527 ATOM 2527 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2536 ATOM 2540 ATOM 2544 ATOM 2546 ATOM 2546 ATOM 2546 ATOM 2546 ATOM 2551 ATOM 2551 ATOM 2553 ATOM 2555 ATOM 2555	CA HIS A CB HIS A C HI	159 159 159 160 160 160 160 160 160 160 160 160 160	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038 57.406 -12.963 54.436 -14.860 54.715 -15.905 53.426 -14.830 52.682 -16.052 52.337 -16.324 52.925 -15.725 51.354 -17.218 50.850 -17.612 51.072 -19.072	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417 2.560 0.466 1.146 -0.387 -0.588 -2.010 -2.936 -2.151 -3.430 -3.631	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 72.49 1.00 70.29 1.00 78.18 1.00 72.80 1.00 76.27 1.00 76.27 1.00 70.92 1.00 73.91 1.00 71.50 1.00 71.80 1.00 75.27	и с с с с с с с с о и с с о и с с о и с о и о
ATOM 2515 ATOM 2525 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2536 ATOM 2540 ATOM 2544 ATOM 2545 ATOM 2545 ATOM 2551 ATOM 2551 ATOM 2552 ATOM 2553 ATOM 2553 ATOM 2553 ATOM 2557 ATOM 2560 ATOM 2560	CA HIS A CB HIS A C HI	159 159 159 160 160 160 160 160 160 160 160 160 161 161	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038 57.406 -12.963 54.436 -14.860 54.715 -15.905 53.426 -14.830 52.682 -16.052 52.337 -16.324 52.925 -15.725 51.354 -17.218 50.850 -17.612 51.072 -19.072 49.976 -19.671 49.382 -17.287	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417 2.560 0.466 1.146 -0.387 -0.588 -2.010 -2.936 -2.151 -3.430 -3.631 -3.029 -3.697	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 72.49 1.00 70.29 1.00 78.18 1.00 72.80 1.00 76.27 1.00 70.92 1.00 71.53 1.00 72.10 1.00 73.91 1.00 73.91 1.00 71.50 1.00 75.27 1.00 75.08 1.00 68.40	N C C C C C C C C C C C C C C C C C C C
ATOM 2515 ATOM 2527 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2536 ATOM 2540 ATOM 2546 ATOM 2546 ATOM 2546 ATOM 2554 ATOM 2551 ATOM 2552 ATOM 2553 ATOM 2560 ATOM 2560	CA HIS A CB HIS A C HI	159 159 159 160 160 160 160 160 160 160 160 160 161 161	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038 57.406 -12.963 54.436 -14.860 54.715 -15.905 53.426 -14.830 52.682 -16.052 52.337 -16.324 52.925 -15.725 51.354 -17.218 50.850 -17.612 51.072 -19.072 49.976 -19.671 49.382 -17.287 49.076 -17.118	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417 2.560 0.466 1.146 -0.387 -0.588 -2.010 -2.936 -2.151 -3.430 -3.631 -3.029 -3.697 -4.826	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 72.49 1.00 70.29 1.00 78.18 1.00 72.80 1.00 76.27 1.00 70.92 1.00 71.53 1.00 72.10 1.00 73.91 1.00 73.91 1.00 71.50 1.00 75.27 1.00 75.08 1.00 68.40 1.00 71.58	N C C C C C C C C C C C C C C C C C C C
ATOM 2515 ATOM 2525 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2536 ATOM 2540 ATOM 2544 ATOM 2545 ATOM 2548 ATOM 2548 ATOM 2551 ATOM 2551 ATOM 2552 ATOM 2553 ATOM 2553 ATOM 2553 ATOM 2557 ATOM 2560 ATOM 2560 ATOM 2563 ATOM 2563 ATOM 2563	CA HIS A CB HIS A C HI	159 159 159 160 160 160 160 160 160 160 160 161 161	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038 57.406 -12.963 54.436 -14.860 54.715 -15.905 53.426 -14.830 52.682 -16.052 52.337 -16.324 52.925 -15.725 51.354 -17.218 50.850 -17.612 51.072 -19.072 49.976 -19.671 49.382 -17.287 49.076 -17.118 48.443 -17.195	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417 2.560 0.466 1.146 -0.387 -0.588 -2.010 -2.936 -2.151 -3.430 -3.631 -3.029 -3.697 -4.826 -2.785	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 72.49 1.00 70.29 1.00 78.18 1.00 72.80 1.00 76.27 1.00 70.92 1.00 71.53 1.00 72.10 1.00 73.91 1.00 73.91 1.00 75.27 1.00 75.08 1.00 75.08 1.00 68.40 1.00 71.58 1.00 64.77	N C C C C C C C C C C C C O N C C O O N C O O O O
ATOM 2515 ATOM 2525 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2534 ATOM 2540 ATOM 2544 ATOM 2546 ATOM 2546 ATOM 2551 ATOM 2551 ATOM 2552 ATOM 2555 ATOM 2555 ATOM 2555 ATOM 2556 ATOM 2560 ATOM 2560 ATOM 2560 ATOM 2564 ATOM 2564 ATOM 2564 ATOM 2566	CA HIS A CB HIS A CB HIS A C HIS A O HIS A N LEU A CA LEU A CB LEU A CG LEU A CD1 LEU A CD2 LEU A CD4 LEU A CD5 LEU A CD6 LEU A CD7 LEU A CD7 LEU A CD8 CA GLY A CA GLY A CA SER A CCB SER	159 159 159 160 160 160 160 160 160 160 160 161 161	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038 57.406 -12.963 54.436 -14.860 54.715 -15.905 53.426 -14.830 52.682 -16.052 52.337 -16.324 52.925 -15.725 51.354 -17.218 50.850 -17.612 51.072 -19.072 49.976 -19.671 49.382 -17.287 49.076 -17.118 48.443 -17.195 47.190 -16.558	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417 2.560 0.466 1.146 -0.387 -0.588 -2.010 -2.936 -2.151 -3.430 -3.631 -3.029 -3.697 -4.826	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 72.49 1.00 70.29 1.00 78.18 1.00 72.80 1.00 76.27 1.00 70.92 1.00 71.53 1.00 72.10 1.00 73.91 1.00 73.91 1.00 71.50 1.00 75.27 1.00 75.08 1.00 68.40 1.00 71.58	N C C C C C C C C C C C C C C C C C C C
ATOM 2515 ATOM 2525 ATOM 2526 ATOM 2527 ATOM 2529 ATOM 2531 ATOM 2534 ATOM 2536 ATOM 2540 ATOM 2544 ATOM 2545 ATOM 2548 ATOM 2548 ATOM 2551 ATOM 2551 ATOM 2552 ATOM 2553 ATOM 2553 ATOM 2553 ATOM 2557 ATOM 2560 ATOM 2560 ATOM 2563 ATOM 2563 ATOM 2563	CA HIS A CB HIS A C HI	159 159 159 160 160 160 160 160 160 160 160 161 161	56.367 -11.474 57.529 -10.454 56.430 -12.503 57.483 -13.106 55.312 -12.726 55.300 -13.613 54.955 -12.858 56.170 -12.018 55.879 -11.038 57.406 -12.963 54.436 -14.860 54.715 -15.905 53.426 -14.830 52.682 -16.052 52.337 -16.324 52.925 -15.725 51.354 -17.218 50.850 -17.612 51.072 -19.072 49.976 -19.671 49.382 -17.287 49.076 -17.118 48.443 -17.195	-2.511 -2.416 -1.321 -1.060 -0.620 0.558 1.835 2.242 3.417 2.560 0.466 1.146 -0.387 -0.588 -2.010 -2.936 -2.151 -3.430 -3.631 -3.029 -3.697 -4.826 -2.785	1.00 72.75 1.00 74.34 1.00 73.55 1.00 77.25 1.00 70.71 1.00 71.96 1.00 72.49 1.00 70.29 1.00 78.18 1.00 72.80 1.00 76.27 1.00 70.92 1.00 71.53 1.00 72.10 1.00 73.91 1.00 73.91 1.00 75.27 1.00 75.08 1.00 75.08 1.00 68.40 1.00 71.58 1.00 64.77	N C C C C C C C C C C C C O N C C O O N C O O O O
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ATOM	2572	С	CYS	Α	163	46.203 -17.327 -4.092 1.00 62.09	C
ATOM	2573	0	CYS	Α	163	46.486 -17.842 -5.125 1.00 64.63	0
MOTA	2574	N	CLM	Ζ	164	44.966 -17.252 -3.712 1.00 59.87	N
	2576	CA			164	43.963 -17.875 -4.490 1.00 59.87	С
ATOM	2578	CB	GLN	Α	164	42.775 -18.151 -3.577 1.00 58.78	C
ATOM	2581	CG	GLN	Α	164	43.135 -19.114 -2.394 1.00 60.45	С
	2584	CD			164		
						42.289 -18.848 -1.173 1.00 58.32	C
ATOM	2585	OEI	GLN	Α	164	41.246 -19.446 -1.065 1.00 62.19	0
ATOM	2586	NE2	GLN	Α	164	42.706 -17.902 -0.272 1.00 60.77	И
	2589	С			164		
							С
ATOM	2590	0	GLN	Α	164	44.054 -15.875 -5.910 1.00 55.31	0
ATOM	2591	N	LYS	Α	165	42.840 -17.597 -6.587 1.00 60.41	N
ATOM	2593	CA	LYS	Ζ	165	42.374 -16.938 -7.780 1.00 59.80	C
	2595	CB	LYS			42.587 -17.888 -8.966 1.00 63.00	C
ATOM	2598	CG	LYS	Α	165	44.023 -18.081 -9.347 1.00 64.02	C
ATOM	2601	CD	LYS	Α	165	44.046 -18.676 -10.685 1.00 70.24	C
	2604	CE	LYS			45.354 -19.359 -10.979 1.00 75.93	
							C
ATOM	2607	NZ	LYS	Α	165	45.322 -20.005 -12.321 1.00 78.93	N
ATOM	2611	C	LYS	Α	165	40.898 -16.505 -7.632 1.00 57.91	С
ATOM	2612	0	LYS	Z	165	40.082 -17.115 -6.894 1.00 57.15	0
	2613	И	CYS			40.574 -15.429 -8.331 1.00 56.63	N
MOTA	2615	CA	CYS	A	166	39.229 -14.949 -8.421 1.00 56.14	C
ATOM	2617	CB	CYS	Α	166	39.265 -13.725 -9.280 1.00 56.07	С
ATOM		SG	CYS				
							S
MOTA	2621	С	CYS	Α	166	38.278 -15.928 -9.059 1.00 58.20	C
MOTA	2622	0	CYS	Α	166	38.612 -16.593 -9.993 1.00 60.87	0
ATOM	2623	И	ASP	Z	167	37.054 -15.995 -8.604 1.00 58.01	И
ATOM		CA	ASP			36.071 -16.803 -9.313 1.00 62.21	С
MOTA	2627	CB	ASP	Α	167	34.731 -16.757 -8.577 1.00 61.75	C
ATOM	2630	CG	ASP	Α	167	33.981 -18.042 -8.691 1.00 67.21	С
ATOM		OD1	ASP			33.252 -18.146 -9.682 1.00 71.66	ō
MOTA	2632	OD2	ASP	Α	16/	34.098 -19.030 -7.887 1.00 71.36	0
ATOM	2633	C	ASP	Α	167	35.907 -16.370 -10.772 1.00 64.34	С
MOTA	2634	0	ASP	Δ	167	35.932 -15.189 -11.077 1.00 64.04	0
MOTA		N	PRO			35.733 -17.276 -11.712 1.00 69.18	И
MOTA	2636	CA	PRO	Α	168	35.529 -16.843 -13.117 1.00 71.67	C
MOTA	2638	CB	PRO	Α	168	35.482 -18.135 -13.880 1.00 75.31	С
MOTA		CG	PRO			34.937 -19.094 -12.867 1.00 75.75	C
ATOM		CD	PRO			35.648 -18.736 -11.577 1.00 72.39	C
ATOM	2647	С	PRO	A	168	34.190 -16.113 -13.277 1.00 72.13	С
MOTA	2648	0	PRO	А	168	33.980 -15.434 -14.273 1.00 74.17	0
ATOM		N	SER			33.333 -16.243 -12.263 1.00 70.78	
							N
MOTA	265I	CA	SER	А	169	32.029 -15.649 -12.196 1.00 70.36	С
ATOM	2653	CB	SER	Α	169	31.448 -16.185 -10.906 1.00 69.09	С
MOTA	2656	OG	SER	Д	169	30.162 -15.740 -10.627 1.00 69.59	0
MOTA							
		С	SER			32.176 -14.099 -12.189 1.00 68.96	C
ATOM		0	SER	Α	169	31.369 -13.354 -12.767 1.00 69.80	0
MOTA	2660	N	CYS	Α	170	33.235 -13.645 -11.522 1.00 66.34	N
ATOM		CA	CYS			33.585 -12.257 -11.389 1.00 64.17	C
MOTA		CB	CYS			35.009 -12.194 -10.803 1.00 62.64	C
MOTA	2667	SG	CYS	Α	170	35.099 -12.706 -9.064 1.00 65.28	S
ATOM	2668	С	CYS	Α	170	33.626 -11.532 -12.691 1.00 64.97	C
MOTA		0	CYS				
							0
MOTA	2670	N	PRO			33.293 -10.224 -12.709 1.00 63.33	N
MOTA	2671	CA	PRO	Α	171	33.587 -9.309 -13.840 1.00 63.95	С
MOTA		CB	PRO			32.709 -8.083 -13.545 1.00 62.43	Ċ
MOTA		CG	PRO	А	T / T	32.618 -8.081 -12.137 1.00 60.40	С
ATOM	2679	CD	PRO	Α	171	32.609 -9.504 -11.624 1.00 60.72	C
MOTA	2682	С	PRO			35.056 -8.844 -13.952 1.00 62.28	С
ATOM		0					
			PRO				0
ATOM		N	ASN	A	172	35.651 -9.053 -15.137 1.00 64.60	N
ATOM	2686	CA	ASN	Α	172	37.014 -8.626 -15.469 1.00 64.03	С
ATOM	2688	СВ	ASN			37.092 -7.107 -15.494 1.00 63.31	Ċ
ATOM		CG	ASN			36.067 -6.493 -16.417 1.00 64.86	С
ATOM			ASN			36.063 -6.769 -17.588 1.00 68.52	0
MOTA	2693	ND2	ASN	A	172	35.183 -5.689 -15.884 1.00 63.98	N
ATOM		С	ASN			38.072 -9.188 -14.525 1.00 62.11	C
						AA	
ATOM	2091	0	ASN	А	1/2	39.141 -8.611 -14.391 1.00 60.44	0

MOTA	2698	N	GLY	Α	173	37.760	-10.330	-13.891	1.00 61.	90	N
	2700	CA			173		-11.067		1.00 60.		C
	2703	C			173						C
			-				-10.365		1.00 56.		
	2704	0			173		-10.665		1.00 54.		0
	2705	N			174	38.081	-9.436		1.00 54.		И
	2707	CA	SER	A	174	38.350		-10.289	1.00 53.	27	С
MOTA	2709	CB	SER	Α	174	38.094	-7.084	-10.657	1.00 54.	14	С
MOTA	2712	OG	SER	Α	174	37.408	-6.922	-11.890	1.00 61.	12	0
ATOM	2714	С	SER	Α	174	37.560	-8.949	-9.069	1.00 51.	33	C
ATOM	2715	0	SER	Α	174	36.354	-9.118	-9.128	1.00 51.	96	0
	2716	N			175	38.277	-9.140	-7.965	1.00 50.		N
	2718	CA			175	37.716	-9.660	-6.724	1.00 49.		C
	2720	CB			175		-11.161	-6.785	1.00 51.		C
	2723						-11.101				
		SG			175			-6.497	1.00 54.		S
	2724	C			175	38.552	-9.228	-5.541	1.00 46.		C
	2725	0			175	39.663	-8.727	-5.713	1.00 45.		0
ATOM	2726	N	TRP	А	176	38.009	-9.415	-4.342	1.00 44.	79	N
ATOM	2728	CA	TRP	Α	176	38.693	-9.052	-3.078	1.00 42.	74	C
MOTA	2730	CB	TRP	A	176	37.714	-8.389	-2.131	1.00 40.	96	C
MOTA	2733	CG	TRP	Α	176	37.119	-7.038	-2.642	1.00 40.	42	C
ATOM	2734	CD1	TRP	Α	176	35.982	-6.870	-3.326	1.00 39.	92	С
	2736		TRP			35.755	-5.544	-3.560	1.00 41.		N
	2738		TRP			36.782	-4.827	~3.009	1.00 41.		C
											C
	2739		TRP			37.639	-5.735	-2.393	1.00 38.		
	2740		TRP			38.790	-5.256	~1.764	1.00 39.		C
	2742		TRP			39.040	-3.931	-1.766	1.00 36.		C
	2744		TRP			38.161	-3.054	-2.364	1.00 40.		С
MOTA	2746	CZ2	TRP	Α	176	37.023	-3.483	-3.010	1.00 40.	72	С
MOTA	2748	С	TRP	Α	176	39.264	-10.290	-2.369	1.00 43.	56	С
ATOM	2749	0	TRP	Α	176	39.952	-10.188	-1.370	1.00 42.	95	0
ATOM	2750	N	GLY	Α	177	38.981	-11.465	-2.907	1.00 45.3	37	N
ATOM	2752	CA	GLY	Α	177	39.457	-12.658	-2.312	1.00 45.3	99	С
	2755	С			177		-13.810	-2.985	1.00 49.		C
	2756	0	GLY				-13.706	-4.041	1.00 50.		Ö
	2757	И	ALA				-14.939	-2.328	1.00 50.3		И
	2759	CA	ALA				-16.179	-2.908	1.00 53.3		С
	2761	CB	ALA				-17.222	-2.129	1.00 55.		С
	2765	С	ALA	A	178		-16.275	-2.878	1.00 53.3	36	С
ATOM	2766	0	ALA			36.440	-15.593	-2.110	1.00 50.	54	0
ATOM	2767	N	GLY	Α	179	36.414	-17.067	-3.747	1.00 55.	92	N
ATOM	2769	CA	GLY	Α	179	34.974	-17.248	-3.736	1.00 57.3	34	C
ATOM	2772	С	GLY	Α	179	34.100	-16.268	~4.495	1.00 56.	65	С
ATOM	2773	0	GLY	Α	179	34.480	-15.136	-4.759	1.00 53.0	03	0
	2774	N	GLU				-16.772	-4.873	1.00 59.		N
	2776	CA	GLU				-16.075	-5.712	1.00 60.		C
	2778	CB	GLU				-16.977	-6.100	1.00 64.2		Č
	2781							-7.273			
			GLU						1.00 69.0		C
	2784	CD	GLU				-17.373	-7.882	1.00 79.3		C
	2785		GLU				-16.913	-7.924	1.00 83.2		0
	2786		GLU				-18.553	-8.346	1.00 85.0		0
ATOM	2787	С	GLU	A	180	31.425	-14.874	-4.965	1.00 58.2	20	С
ATOM	2788	0	GLU	Α	180	31.056	-13.872	-5.585	1.00 55.0	67	0
ATOM	2789	N	GLU	Α	181	31.338	-15.008	-3.639	1.00 57.	72	N
ATOM	2791	CA	GLU	Α	181	30.851	-13.919	-2.784	1.00 56.3	13	С
ATOM	2793	CB	GLU	Α	181	30.543	-14.432	-1.393	1.00 56.5	53	С
	2796	CG	GLU				-14.311	-0.500	1.00 56.3		Ċ
	2799	CD	GLU				-15.221	0.695	1.00 58.9		C
	2800		GLU				-15.799	0.952	1.00 63.3		0
	2801		GLU				-15.341	1.348	1.00 58.0		0
	2802	C	GLU				-12.698	-2.640	1.00 52.		С
	2803	0	GLU				-11.655	-2.106	1.00 51.		0
ATOM	2804	N	ASN	A	182	33.061	-12.845	-3.073	1.00 51.3	13	N
ATOM	2806	CA	ASN	Α	182	34.102	-11.813	-2.936	1.00 47.8	34	C
ATOM	2808	CB	ASN	Α	182	35.396	-12.431	-2.392	1.00 46.5	56	С
	2811	CG	ASN				-12.667	-0.891	1.00 46.0		С
	2812		ASN				-11.922	-0.093	1.00 45.3		Ö
	2813		ASN				-13.707	-0.499	1.00 47.8		N
	2816	C	ASN				-11.183	-4.272	1.00 47.3		C
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ATOM	2817	0	ASN	Α	182	35.383	-10.470	-4.441	1.00	45.91	0
ATOM	2818	N	CYS	A	183		-11.480	-5.236		50.13	N
ATOM	2820	CA	CYS	Α	183	33.545	-10.849	-6.567		51.09	С
ATOM	2822	CB	CYS	Α	183	32.578	-11.504	-7.579	1.00	53.48	C
ATOM	2825	SG	CYS	Α	183	33.164	-13.146	-8.334	1.00	63.64	S
ATOM	2826	С	CYS	Α	183	33.204	-9.376	-6.289	1.00	48.00	С
ATOM	2827	0	CYS	Α	183	32.345	-9.091	-5.454	1.00	45.84	0
ATOM	2828	N	GLN	Α	184	33.937	-8.507	-6.987	1.00	46.92	N
ATOM	2830	CA	GLN	A	184	33.621	-7.097	-7.082	1.00	47.29	C
MOTA	2832	CB	GLN	Α	184	34.702	-6.286	-7.837	1.00	45.60	С
ATOM	2835	CG			184	34.313	-4.821	-8.086	1.00	46.53	С
	2838	CD			184	35.490	-3.732	-8.235	1.00	45.39	C
	2839		GLN			36.557	-3.993	-8.815	1.00	43.19	0
ATOM	2840	NE2	GLN			35.226	-2.509	-7.721	1.00	41.52	N
	2843	С	GLN	Α	184	32.209	-6.922	-7.643	1.00	49.85	С
	2844	0	GLN	А	184	31.887	-7.418	-8.732	1.00	53.03	0
	2845	N			185	31.342	-6.271	-6.868	1.00	49.27	N
	2847	CA	LYS	Α	185	30.086	-5.798	-7.441	1.00	51.63	C
	2849	CB			185	29.023	-5.620	-6.343	1.00	52.06	C
	2852	CG			185	28.517	-6.901	-5.629	1.00	53.93	C
	2855	CD			185	28.156	-6.583	-4.065	1.00	53.03	C
	2858	CE			185	28.695	-7.612	-3.059		49.07	C
	2861	NZ			185	27.572	-8.323	-2.540	1.00	54.03	N
	2865	С	LYS			30.318	-4.457	-8.218		50.18	С
	2866	0	LYS			30.983	-3.581	-7.726	1.00	49.13	0
	2867	N			186	29.780	-4.279	-9.412		52.33	N
	2869	CA			186	29.967		-10.114		52.28	С
	2871	CB			186	30.613		-11.493		53.18	С
ATOM		CG	LEU			32.019		-11.492		52.36	С
	2876		LEU			32.537		-12.914		54.00	С
	2880		LEU			33.021		-10.768		48.37	С
ATOM		C	LEU			28.654		-10.199		54.66	C
	2885	0	LEU			27.611		-10.407		56.57	0
	2886	N	THR			28.725	-0.964	-9.972		54.57	N
MOTA		CA	THR			27.587		-10.035		57.60	C
	2890	CB	THR			27.054	0.099	-8.609		56.84	C
	2892		THR			28.131	0.506	-7.763		56.81	0
ATOM			THR			26.549	-1.189	-7.960		55.84	C
ATOM		C	THR			27.833		-10.662		59.12	C
ATOM		O	THR			26.885		-10.684		60.17	0
ATOM		N	LYS			29.051		-11.153		59.07	N
ATOM		CA	LYS			29.350		-11.776		60.11	C
ATOM ATOM		CB	LYS			30.430		-10.957		57.60	C
ATOM		CG CD	LYS LYS			30.704		-11.208		53.08	C
ATOM		CE	LYS			31.704		-10.139		50.46	C
ATOM		NZ	LYS			32.508 32.092		-10.695 -10.925		62.36 56.57	C N
ATOM		C	LYS			29.771		-13.239			
ATOM		0	LYS			29.111		-13.259 -14.157		63.34	C
ATOM		N	ILE			30.843		-13.440		63.68	N
ATOM		CA	ILE			31.424		-14.765		67.03	C
ATOM		CB	ILE			32.738		-14.377		65.88	C
MOTA			ILE			33.814		-14.376		68.15	Č
MOTA			ILE			34.948		-13.491		70.37	c
ATOM			ILE			33.099		-15.182		66.88	c
ATOM		C	ILE			30.607		-15.788		70.02	c
MOTA		Ō	ILE			30.992		-16.920		72.11	Ö
ATOM		N	ILE			29.476		-15.338		70.44	И
MOTA		CA	ILE			28.701		-15.994		72.98	C
ATOM		CB	ILE			28.515		-14.937		70.63	C
ATOM			ILE			29.637		-15.140		71.22	Č
ATOM			ILE			29.307		-14.645		76.22	c
ATOM			ILE			27.125		-14.917		71.99	Č
ATOM		С	ILE			27.366		-16.413		76.24	Č
ATOM		0	ILE			26.564		-17.119		79.79	Ö
ATOM		N	CYS			27.136		-15.996		75.30	Ŋ
MOTA		CA	CYS			25.844		-16.157		78.23	C
MOTA		CB	CYS			25.752		-15.123		76.32	C
										-	

ATOM 2967	SG CYS A 191	26.102	2.238 -13.446	1.00 74.45	S
ATOM 2968	C CYS A 191	25.605	2.255 -17.601	1.00 81.91	Č
ATOM 2969	O CYS A 191	26.543	2.581 -18.338	1.00 82.17	Ō
ATOM 2970	N ALA A 192	24.346	2.227 -18.012	1.00 84.89	N
ATOM 2972	CA ALA A 192	23.966	2.868 -19.251	1.00 89.58	C
ATOM 2974	CB ALA A 192	22.450	2.842 -19.400	1.00 93.30	C
ATOM 2978	C ALA A 192	24.506	4.339 -19.275	1.00 89.64	C
ATOM 2979	O ALA A 192	24.639	4.980 -18.201	1.00 85.53	0
ATOM 2980	N GLN A 193	24.836	4.846 -20.484	1.00 93.10	N
ATOM 2982	CA GLN A 193	25.353	6.215 -20.616	1.00 94.09	C
ATOM 2984	CB GLN A 193	25.538	6.634 -22.098	1.00 99.22	C
ATOM 2987	CG GLN A 193	26.163	8.062 -22.297	1.00 99.92	C
ATOM 2990	CD GLN A 193	25.933	8.638 -23.692	1.00108.02	C
ATOM 2991	OE1 GLN A 193	25.886	7.901 -24.675	1.00115.13	0
ATOM 2992	NE2 GLN A 193	25.800	9.955 -23.788	1.00112.64	Ŋ
ATOM 2995	C GLN A 193	24.388	7.177 -19.901	1.00 94.51	C
ATOM 2996	O GLN A 193	24.827	8.100 -19.208	1.00 92.51	O
ATOM 2997	N GLN A 194	23.086	6.891 -20.050	1.00 97.35	N
ATOM 2999	CA GLN A 194	21.973	7.735 -19.591	1.00 99.21	C
ATOM 3001	CB GLN A 194	20.667	7.116 -20.142	1.00103.46	C
ATOM 3008	C GLN A 194	21.839	8.015 -18.057	1.00 95.71	C
ATOM 3009	O GLN A 194	21.013	8.809 -17.645	1.00 97.16	0
ATOM 3010	N CYS A 195	22.633	7.364 -17.216	1.00 91.62	И
ATOM 3012	CA CYS A 195	22.490	7.526 -15.791	1.00 88.83	C
ATOM 3014 ATOM 3017	CB CYS A 195 SG CYS A 195	22.917 21.902	6.292 -15.017 4.815 -15.196	1.00 85.27 1.00 90.56	C S
ATOM 3017 ATOM 3018	C CYS A 195	23.412	8.598 -15.346	1.00 90.38	S C
ATOM 3018	O CYS A 195	24.607	8.599 -15.680	1.00 85.07	0
ATOM 3013	N SER A 196	22.858	9.456 -14.507	1.00 87.22	И
ATOM 3022	CA SER A 196	23.627	10.438 -13.814	1.00 85.77	Č
ATOM 3024	CB SER A 196	22.648	11.354 -13.047	1.00 87.93	č
ATOM 3027	OG SER A 196	22.540	11.018 -11.651	1.00 86.76	0
ATOM 3029	C SER A 196	24.677	9.843 -12.839	1.00 81.16	С
ATOM 3030	O SER A 196	25.573	10.557 -12.395	1.00 81.13	0
ATOM 3031	N GLY A 197	24.538	8.580 -12.438	1.00 78.73	И
ATOM 3033	CA GLY A 197	25.334	8.000 -11.342	1.00 73.56	C
ATOM 3036	C GLY A 197	24.830	6.601 -11.007	1.00 72.09	C
ATOM 3037	O GLY A 197	23.864	6.111 -11.623	1.00 75.94	0
ATOM 3038	N ARG A 198	25.480	5.936 -10.068	1.00 67.34	N
ATOM 3040	CA ARG A 198	25.152	4.530 -9.712	1.00 65.41	C
ATOM 3042	CB ARG A 198	24.991	4.402 -8.192	1.00 63.68	С
ATOM 3045	CG ARG A 198	26.212	4.737 -7.348	1.00 57.45	C
ATOM 3048	CD ARG A 198	27.428	4.201 -7.931	1.00 54.35	C
ATOM 3051	NE ARG A 198	28.605	4.632 -7.227	1.00 49.75	N
ATOM 3053	CZ ARG A 198	29.670	3.892 -7.060	1.00 48.00	C
ATOM 3054	NH1 ARG A 198	29.696	2.647 -7.498	1.00 51.64	N
ATOM 3057 ATOM 3060	NH2 ARG A 198 C ARG A 198	30.717 23.916	4.384 -6.450	1.00 45.20	N C
ATOM 3060 ATOM 3061	C ARG A 198 O ARG A 198	22.865	3.831 -10.309 4.429 -10.482	1.00 67.96 1.00 69.74	0
ATOM 3062	N CYS A 199	24.066	2.517 -10.533	1.00 68.17	И
ATOM 3064	CA CYS A 199	22.980	1.584 -11.035	1.00 70.76	C
ATOM 3066	CB CYS A 199	23.028	1.453 -12.552	1.00 73.17	C
ATOM 3069	SG CYS A 199	24.620	0.814 -13.123	1.00 70.86	S
ATOM 3070	C CYS A 199	23.083	0.184 -10.385	1.00 68.65	Č
ATOM 3071	O CYS A 199	23.915	-0.044 -9.450	1.00 65.70	O
ATOM 3072	N ARG A 200	22.214	-0.730 -10.837	1.00 70.83	N
ATOM 3074	CA ARG A 200	22.179	-2.148 -10.359	1.00 69.39	С
ATOM 3076	CB ARG A 200	21.098	-2.232 -9.299	1.00 70.45	C
ATOM 3079	CG ARG A 200	19.798	-1.633 -9.740	1.00 73.74	C
ATOM 3082	CD ARG A 200	18.746	-1.838 -8.754	1.00 76.36	C
ATOM 3085	NE ARG A 200	17.429	-1.744 ~9.348	1.00 82.84	N
ATOM 3087	CZ ARG A 200	16.411	-2.522 -9.015	1.00 86.81	C
ATOM 3088	NH1 ARG A 200	16.540	-3.467 -8.083	1.00 85.55	N
ATOM 3091	NH2 ARG A 200	15.245	-2.346 -9.616	1.00 92.94	N
ATOM 3094	C ARG A 200	21.932	-3.214 -11.467	1.00 71.45	C
ATOM 3095	O ARG A 200	21.777	-4.416 -11.236	1.00 71.97	0
ATOM 3096	N GLY A 201	21.869	-2.714 -12.673	1.00 73.31	N
ATOM 3098	CA GLY A 201	21.586	-3.476 -13.847	1.00 77.37	C

АТОМ	3101	С	GLY	Α	201	22,227	-2 705	-14.954	1.00	78 01	С
	3102	0			201	22.616		-14.732		76.98	0
	3103	N			202	22.386		-16.117		80.54	N
	3105	CA			202	23.135		-17.185		81.72	C
	3107	CB			202	23.959		-18.012		81.81	Ċ
ATOM	3114	С	LYS	Α	202	22.129		-17.999		86.87	Ċ
ATOM	3115	0	LYS	Α	202	22.526		-18.906		88.82	Ō
MOTA	3116	N	SER	Α	203	20.842	-1.953	-17.613	1.00		N
ATOM	3118	CA	SER	Α	203	19.704	-1.280	-18.316	1.00	94.97	С
ATOM	3120	CB	SER	Α	203	18.414	-2.065	-18.031	1.00	98.06	С
ATOM	3123	OG	SER	A	203	18.209	-2.178	-16.619	1.00	96.46	0
	3125	С	SER	A	203	19.442	0.215	-17.938	1.00	94.60	С
ATOM	3126	0			203	19.990	0.716	-16.921	1.00	89.96	0
	3127	N	PRO	A	204	18.628	0.908	-18.767	1.00	99.08	N
	3128	CA			204	18.061		-18.420	1.00		C
	3130	CB			204	17.375		-19.710	1.001		С
	3133	CG			204	17.293		-20.624	1.001		C
	3136	CD			204	18.277		-20.142	1.001		C
	3139	C			204	17.048		-17.273	1.001		C
	3140 3141	O N			204	17.060		-16.434	1.00		0
	3143	N CA			205 205	16.173 15.376		-17.206 -15.992	1.001		N
	3145	CB			205	14.395		-16.148	1.001		C C
	3148	OG			205	15.123		-16.565	1.001		0
	3150	C			205	16.237		-14.770	1.00		C
	3151	ō			205	15.875		-13.651	1.00		o
	3152	N			206	17.401		-14.948	1.00		N
	3154	CA			206	18.244		-13.781	1.00		C
ATOM	3156	CB	ASP	Α	206	19.266	-1.183	-14.155	1.00		C
ATOM	3162	С	ASP	A	206	18.926	1.144	-13.099	1.00	84.68	C
MOTA	3163	0	ASP	A	206	19.810	0.969	-12.300	1.00	80.94	0
	3164	N			207	18.545	2.373	-13.378	1.00	86.84	И
	3166	CA			207	19.279		-12.786	1.00	84.84	C
MOTA		CB			207	19.006		-13.567	1.00 8		C
ATOM		SG			207	19.830		-15.177	1.00		S
	3172	C			207	18.945		-11.311	1.00 8		C
ATOM		O NT			207	17.821		-10.885	1.00		0
ATOM ATOM		N CA			208 208	19.915 19.749	4.385	-10.561	1.00		N
ATOM		CB			208	20.959	4.788	-9.117 -8.200	1.00		C
ATOM		SG			208	21.335	2.712	-7.852	1.00		s
ATOM		C			208	19.496	6.275	-9.006	1.00		C
MOTA		Ō			208	20.107	7.074	-9.710	1.00		0
ATOM		N			209	18.607	6.637	-8.092	1.00		Ŋ
ATOM	3186	CA	HIS	A	209	18.280	8.040	-7.879	1.00 8		С
ATOM	3188	CB	HIS	Α	209	17.372	8.223	-6.680	1.00 8	32.57	С
MOTA	3191	CG	HIS	A	209	16.907	9.628	-6.497	1.00 8	36.38	С
ATOM	3192		HIS			15.853	10.170	-7.198	1.00 9	94.24	N
ATOM			HIS			15.655	11.421	-6.809	1.00 9	96.56	C
ATOM			HIS			16.568	11.718	-5.902	1.00 9		N
ATOM			HIS			17.357	10.610	-5.691	1.00 8		С
ATOM		C			209	19.551	8.845	-7.694	1.00		C
ATOM		0			209	20.510	8.343	-7.144	1.00		0
ATOM ATOM		N	ASN		210	19.543	10.089	-8.168	1.00 8		N
ATOM		CA CB			210	20.717 20.251	12.335	-8.164 -8.576	1.00 7		C
ATOM		CG	ASN			21.408	13.355	-8.850	1.00 8		C
ATOM			ASN			22.542	13.249	-8.323	1.00 8		0
ATOM			ASN			21.065	14.416	-9.643	1.00		И
ATOM		C	ASN			21.360	10.886	-6.758	1.00 7		Č
MOTA		0	ASN			22.583	10.777	-6.639	1.00		Ö
ATOM		N	GLN			20.516	10.873	-5.716	1.00		И
MOTA		CA	GLN			20.930	10.869	-4.335	1.00 7		Ċ
MOTA	3220	CB	${\tt GLN}$			19.728	11.029	-3.403	1.00 7		C
MOTA		CG	GLN			18.918	12.325	-3.575	1.00 7		C
MOTA		CD	GLN			19.620	13.572	-3.094	1.00 7	73.73	С
MOTA			GLN			20.318	13.552	-2.113	1.00 7		0
MOTA	3228	NE2	GLN	A	211	19.431	14.657	-3.802	1.00 7	77.44	N

ATOM	3231	С	GLN	Α	211	21.690	9.671	-3.809	1.00 68.89	C
					211					
ALOM	3232	0				22.103	9.730	-2.654	1.00 68.37	0
ATOM	3233	N	CYS	Α	212	21.895	8.585	-4.561	1.00 68.32	N
7/ 17/ 0/4	2225	CT	CVC	7\	212		7.341			
	3235	CA				22.445	7.541	-3.952	1.00 65.45	С
ATOM	3237	CB	CYS	Α	212	21.877	6.071	-4.588	1.00 66.69	C
ATOM	3240	SG	CVC	7\	212	20.095	5.933	-4.285	1 00 74 10	S
									1.00 74.19	
ATOM	3241	C	CYS	Α	212	23.942	7.262	-3.984	1.00 61.86	C
ATOM	3212	0	CVS	7\	212	24.613	7.907	-4.833	1.00 61.22	0
ATOM	3243	N	ALA	Α	213	24.468	6.458	-3.056	1.00 59.19	N
ATOM	3245	CA	Z\ T . Z\	Z	213	25.877	6.519	-2.765	1.00 56.34	С
MOTA	3247	CB	ALA	Α	213	26.105	6.720	-1.392	1.00 55.01	C
ATOM	3251	С	ALA	А	213	26.611	5.295	-3.245	1.00 54.74	C
ATOM	3232	0	ALA	A	213	27.718	5.456	-3.821	1.00 54.91	0
MOTA	3253	N	ALA	Α	214	26.052	4.111	-3.043	1.00 54.09	N
ATOM	3255	CA	71 T 7	71	214	26.786	2.893	-3.436	1.00 52.51	С
MOTA	3257	CB	ALA	Α	214	26.982	2.055	-2.300	1.00 50.79	C
ATOM	3261	С	ΆΤ.Δ	Z	214	26.086	2.088	-4.486	1.00 55.33	С
ATOM	3262	0	ALA	Α	214	26.726	1.278	-5.148	1.00 55.72	0
ATOM	3263	N	GLY	A	215	24.783	2.329	-4.653	1.00 58.27	N
MOTA		CA	THU,	А	215	23.914	1.484	-5.445	1.00 60.72	С
ATOM	3268	C	GLY	Α	215	22.512	1.447	-4.858	1.00 63.18	C
ATOM	3260	0			215	22.195	2.220	-3.951	1.00 62.63	
										0
MOTA	3270	N	CYS	Α	216	21.657	0.574	-5.394	1.00 65.69	N
MOTA	3272	CA	CVG	2\	216	20.258	0.586	-4.964	1.00 69.24	С
MOTA	3274	CB	CYS	Α	216	19.535	1.716	-5.650	1.00 72.29	C
MOTA	3277	SG	CYS	Ά	216	19.657	1.623	-7.430	1.00 74.13	S
MOTA	3218	С	CIS	А	216	19.447	-0.665	-5.227	1.00 71.77	C
MOTA	3279	0	CYS	Α	216	19.886	-1.583	-5.916	1.00 71.93	0
MOTA		N			217	18.233	-0.626	-4.696	1.00 73.98	N
MOTA	3282	CA	THR	Α	217	17.304	-1.724	-4.665	1.00 76.58	C
ATOM	3281	CB	ФИР	7\	217	16.933	-1.861	-3.231	1.00 76.60	С
MOTA	3286	OG1	THR	Α	217	18.073	-2.376	-2.558	1.00 71.61	0
ATOM	3288	CG2	THR	Ζ	217	15.797	-2.863	-2.987	1.00 81.96	C
MOTA	3292	С	THR	Α	217	16.089	-1.360	-5.465	1.00 81.10	C
MOTA	3293	0	THR	Α	217	15.039	-1.958	-5.310	1.00 84.07	0
ATOM		N	GLY	А	218	16.232	-0.341	-6.305	1.00 81.30	\mathbf{N}
ATOM	3296	CA	GLY	Α	218	15.083	0.262	-6.937	1.00 86.06	C
ATOM	3299	С	CT.V	7	218	15.298	1.697	-7.356	1.00 85.69	C
MOTA	3300	0	GLY	Α	218	16.323	2.320	-7.062	1.00 81.26	0
MOTA	3301	N	PRO	Ά	219	14.270	2,229	-8.003	1.00 90.50	N
MOTA	3302	CA	PRO	А	219	14.353	3.496	-8.749	1.00 91.95	C
MOTA	3304	CB	PRO	A	219	12.956	3.600	-9.384	1.00 98.27	C
MOTA	3307	CG			219	12.042	2.762			C
								-8.489	1.00 99.76	
MOTA	3310	CD	PRO	А	219	12.909	1.656	-8.018	1.00 95.47	С
MOTA	3313	С	PRO	Δ	219	14.624	4.769	-7.946	1.00 90.33	С
MOTA	3314	0	PRO	А	219	15.405	5.591	-8.349	1.00 88.23	0
ATOM	3315	N	ARG	Α	220	13.981	4.904	-6.810	1.00 91.91	N
MOTA	3317	CA	ARG			13.738	6.217		1.00 93.99	
								-6.233		C
MOTA	3319	CB	ARG	Α	220	12.218	6.360	-5.904	1.00100.22	С
MOTA	3322	CG	ARG	Δ	220	11.634	5.167	~5.100	1.00102.19	C
MOTA	3325	CD	ARG	А	220	10.103	5.144	-4.836	1.00109.43	C
MOTA	3328	NE	ARG	A	220	9.740	3.785	-4.386	1.00111.00	N
MOTA		CZ	ARG			8.505	3.358	-4.091	1.00115.28	C
MOTA	3331	NH1	ARG	Α	220	7.446	4.179	-4.177	1.00118.66	\mathbf{N}
MOTA			ARG			8.347	2.087	-3.696	1.00114.53	
										N
MOTA	3337	С	ARG	Α	220	14.631	6.612	-5.014	1.00 89.71	С
MOTA	3338	0	ARG	Δ	220	15.450	5.829	-4.543	1.00 86,23	0
MOTA		N	GLU	А	ZZ1	14.468	7.873	-4.587	1.00 90.79	N
MOTA		CA	GLU	Α	221	14.998	8.469	-3.350	1.00 88.14	C
	3341									
HIUN		CD			221	14.054	9.612	-2.885	1.00 92.21	С
	3343	CB						0 5 6 5	1 00 00 00	a
ATOM	3343	CB CG			221	13.975	10.853	~3./65	1.00 95.00	G
MOTA	3343 3346	CG	GLU	A		13.975	10.853	-3.765	1.00 95.00	C
MOTA MOTA	3343 3346 3349	CG CD	GLU GLU	A A	221	12.697	10.962	-4.627	1.00103.69	C
MOTA	3343 3346 3349	CG CD	GLU	A A	221					
MOTA MOTA	3343 3346 3349 3350	CG CD OE1	GLU GLU	A A A	221 221	12.697 12.320	10.962 9.931	-4.627 -5.267	1.00103.69 1.00106.17	C 0
MOTA MOTA MOTA	3343 3346 3349 3350 3351	CG CD OE1 OE2	GLU GLU GLU	A A A	221 221 221	12.697 12.320 12.071	10.962 9.931 12.079	-4.627 -5.267 -4.702	1.00103.69 1.00106.17 1.00106.53	C O O
MOTA MOTA	3343 3346 3349 3350 3351	CG CD OE1	GLU GLU	A A A	221 221 221	12.697 12.320	10.962 9.931	-4.627 -5.267	1.00103.69 1.00106.17	C 0
ATOM ATOM ATOM ATOM ATOM	3343 3346 3349 3350 3351 3352	CG CD OE1 OE2 C	GLU GLU GLU GLU	A A A A	221 221 221 221	12.697 12.320 12.071 15.116	10.962 9.931 12.079 7.478	-4.627 -5.267 -4.702 -2.181	1.00103.69 1.00106.17 1.00106.53 1.00 86.16	C 0 0 C
MOTA ATOM ATOM ATOM ATOM ATOM ATOM	3343 3346 3349 3350 3351 3352 3353	CG CD OE1 OE2 C	GLU GLU GLU GLU GLU	A A A A	221 221 221 221 221	12.697 12.320 12.071 15.116 16.103	10.962 9.931 12.079 7.478 7.484	-4.627 -5.267 -4.702 -2.181 -1.457	1.00103.69 1.00106.17 1.00106.53 1.00 86.16 1.00 82.16	c 0 0 c
MOTA MOTA ATOM ATOM ATOM ATOM ATOM ATOM	3343 3346 3349 3350 3351 3352 3353 3354	CG CD OE1 OE2 C	GLU GLU GLU GLU GLU GLU SER	A A A A A	221 221 221 221 221 221 222	12.697 12.320 12.071 15.116	10.962 9.931 12.079 7.478	-4.627 -5.267 -4.702 -2.181	1.00103.69 1.00106.17 1.00106.53 1.00 86.16	C 0 0 C
MOTA ATOM ATOM ATOM ATOM ATOM ATOM	3343 3346 3349 3350 3351 3352 3353 3354	CG CD OE1 OE2 C	GLU GLU GLU GLU GLU	A A A A A	221 221 221 221 221 221 222	12.697 12.320 12.071 15.116 16.103	10.962 9.931 12.079 7.478 7.484	-4.627 -5.267 -4.702 -2.181 -1.457	1.00103.69 1.00106.17 1.00106.53 1.00 86.16 1.00 82.16	c 0 0 c

7 TOM 2250	CD	C G G G G	222	10 500	E 600	0 201	1.00 93.94	С
ATOM 3358	CB	SER A		12.580	5.683	-0.281		
ATOM 3361	OG	SER A		11.809	4.919	-1.194	1.00 96.86	0
ATOM 3363	С	SER A	222	14.640	4.395	-0.949	1.00 85.65	C
ATOM 3364	0	SER A	222	14.676	3.619	0.016	1.00 85.41	0
ATOM 3365	N	ASP A		15.135	4.061	-2.150	1.00 83.69	N
					2.711			C
ATOM 3367	CA	ASP A		15.657		-2.417	1.00 80.96	
ATOM 3369	CB	ASP A	223	15.185	2.195	-3.776	1.00 83.33	С
ATOM 3372	CG	ASP A	223	13.703	2.299	-3.944	1.00 89.14	C
ATOM 3373	OD1	ASP A	223	12.981	1.875	-3.024	1.00 91.08	0
ATOM 3374		ASP A		13.165	2.800	-4.951	1.00 92.92	0
ATOM 3375		ASP A		17.171	2.672	-2.346	1.00 75.27	C
	C							
ATOM 3376	0	ASP A		17.825	1.737	-2.855	1.00 73.21	0
ATOM 3377	N	CYS A	224	17.746	3.656	-1.683	1.00 72.71	N
ATOM 3379	CA	CYS A	224	19.181	3.736	-1.655	1.00 67.99	C
ATOM 3381	CB	CYS A	224	19.598	5.080	-1.135	1.00 67.67	C
ATOM 3384	SG	CYS A		19.506	6.395	-2.344	1.00 70.46	S
ATOM 3385	C	CYS A		19.754	2.694	-0.764	1.00 64.94	C
ATOM 3386	0	CYS A	224	19.110	2.246	0.162	1.00 65.66	0
ATOM 3387	N	LEU A	225	20.979	2.321	-1.078	1.00 61.70	N
ATOM 3389	CA	LEU A	225	21.782	1.447	-0.245	1.00 59.61	С
ATOM 3391	CB	LEU A		22.986	0.868	-1.023	1.00 56.35	C
								C
ATOM 3394	CG	LEU A		22.685	-0.402	-1.891	1.00 56.31	
ATOM 3396		LEU A		23.880	-0.866	-2.679	1.00 51.61	C
ATOM 3400	CD2	LEU A	225	22.126	-1.570	-1.021	1.00 56.37	C
ATOM 3404	С	LEU A	225	22.260	2.296	0.878	1.00 59.46	С
ATOM 3405	0	LEU A	225	22.097	1.964	2.032	1.00 60.50	0
ATOM 3406	N	VAL A		22.876	3.410	0.501	1.00 59.46	N
ATOM 3408	CA	VAL A		23.450	4.366	1.417	1.00 58.35	C
ATOM 3410	CB	VAL A	226	25.010	4.197	1.616	1.00 54.93	C
ATOM 3412	CG1	VAL A	226	25.384	4.755	2.905	1.00 57.11	С
ATOM 3416	CG2	VAL A	226	25.449	2.804	1.665	1.00 54.18	С
ATOM 3420	С	VAL A		23.165	5.729	0.779	1.00 59.60	С
ATOM 3421	0	VAL A		22.958	5.810	-0.407	1.00 60.42	0
ATOM 3422	И	CYS A		23.138	6.793	1.574	1.00 60.27	N
ATOM 3424	CA	CYS A	227	22.873	8.110	1.052	1.00 62.07	C
ATOM 3426	CB	CYS A	227	22.091	8.926	2.031	1.00 64.54	C
ATOM 3429	SG	CYS A	227	20.427	8.315	2.115	1.00 71.77	S
ATOM 3430	C	CYS A		24.164	8.781	0.891	1.00 59.58	C
ATOM 3431	0	CYS A		25.088	8.519	1.662	1.00 57.51	0
ATOM 3432	И	ARG A		24.235	9.677	-0.087	1.00 60.72	N
ATOM 3434	CA	ARG A	228	25.465	10.401	-0.289	1.00 58.88	C
ATOM 3436	CB	ARG A	228	25.938	10.420	-1.728	1.00 58.79	C
ATOM 3439	CG	ARG A		25.066	10.857	-2.770	1.00 60.60	С
ATOM 3442	CD	ARG A		25.870	11.291	-4.034	1.00 60.85	C
ATOM 3445	NΕ	ARG A		25.464	12.688	-4.273	1.00 66.58	N
ATOM 3447	CZ	ARG A	228	25.007	13.147	-5.391	1.00 68.99	C
ATOM 3448	NH1	ARG A	228	24.950	12.391	-6.479	1.00 73.85	N
ATOM 3451	NH2	ARG A	228	24.612	14.369	-5.438	1.00 73.63	N
ATOM 3454	С	ARG A		25.487	11.753	0.315	1.00 60.04	С
		ARG A				0.407		0
ATOM 3455	0			26.542	12.340		1.00 59.64	
ATOM 3456	N	LYS A		24.352	12.222	0.791	1.00 62.48	N
ATOM 3458	$^{\rm CA}$	LYS A	229	24.353	13.442	1.549	1.00 63.66	C
ATOM 3460	CB	LYS A	229	23.648	14.573	0.792	1.00 67.05	C
ATOM 3463	CG	LYS A		24.518	15.066	-0.385	1.00 67.47	C
ATOM 3466	CD	LYS A		23.831	16.061	-1.381	1.00 73.70	C
ATOM 3469	CE	LYS A		24.848	16.474	-2.543	1.00 75.33	C
ATOM 3472	NZ	LYS A		24.415	17.315	-3.811	1.00 79.07	Ñ
ATOM 3476	С	LYS A	229	23.794	13.092	2.898	1.00 63.63	C
ATOM 3477	0	LYS A		24.536	12.696	3.782	1.00 61.98	0
ATOM 3478	N	PHE A		22.501	13.163	3.054	1.00 66.52	N
ATOM 3480	CA	PHE A		21.906	12.856	4.332	1.00 68.08	C
ATOM 3482	CB	PHE A	230	21.322	14.129	4.906	1.00 71.57	C
ATOM 3485	CG	PHE A	230	22.344	15.070	5.540	1.00 72.46	C
ATOM 3486	CD1	PHE A		22.787	16.209	4.888	1.00 74.10	C
ATOM 3488		PHE A		23.692	17.117	5.502	1.00 74.49	C
ATOM 3490	CZ	PHE A		24.146	16.887	6.773	1.00 74.16	C
ATOM 3492		PHE A		23.716	15.748	7.443	1.00 73.51	C
ATOM 3494	CD2	PHE A	230	22.800	14.859	6.831	1.00 74.05	C

ATOM	3496	С	PHE	A	230	20.81	.6 11.77	0 4.136	1.00	69.44	С
	3497	0			230	20.16				71.17	0
	3498	N			231	20.67				68.61	N
	3500 3502	CA CB			231	19.58				70.29	C
	3511	СБ			231 231	20.07 18.55				67.41 74.06	C
	3512	Ö			231	18.92				73.47	0
	3513	N			232	17.27				78.37	N
ATOM	3515	CA	ASP	A	232	16.23				84.33	C
MOTA	3517	CB	ASP	A	232	15.14	4 11.72	8 5.891	1.00	88.64	C
	3520	CG			232	14.23				92.77	C
	3521				232	14.28				92.46	0
	3522 3523	C C			232 232	13.44 15.61				96.60 87.11	0
	3524	0			232	15.96				88.04	0
	3525	N			233	14.66				89.56	N
ATOM	3527	CA			233	13.97				91.75	C
ATOM	3529	CB	GLU	Α	233	12.59	9 8.61	3 8.111	1.00	97.99	С
	3532	CG			233	12.51				.00.66	C
	3535	CD CE1			233	11.38				.09.45	C
	3536 3537	OE 1	GTA		233	10.50 11.34				13.90	0
	3538	C			233	13.90				12.63 90.22	0
	3539	Ó			233	12.88				94.09	0
ATOM	3540	N			234	15.02				85.19	N
ATOM	3542	CA	ALA	Α	234	15.02	5 5.74	3 4.982	1.00	84.82	C
	3544	CB			234	13.81				88.93	C
	3548	C			234	15.06				84.64	C
	3549	0			234	15.34				83.37	0
	3550 3552	N CA			235 235	14.79 14.86				85.96 85.56	N C
	3554	CB			235	13.75				90.41	c
	3556	OG1			235	12.55				94.00	ō
MOTA	3558	CG2	THR	A	235	13.45	5 10.29	8 1.155	1.00	91.65	C
MOTA		С			235	16.20			1.00	81.37	С
	3563	0			235	16.84				80.40	0
	3564	N			236	16.63				80.26	N
ATOM	3566 3568	CA CB			236 236	17.91 18.70				76.60 73.69	C
ATOM		SG			236	19.45				71.68	S
ATOM		C			236	17.77				78.31	C
MOTA	3573	0	CYS	Α	236	17.25	5 12.16	9 -0.717	1.00	80.49	0
ATOM		N			237	18.29				77.15	N
ATOM		CA			237	18.01			1.00		C
MOTA MOTA		CB CG			237 237	17.17 16.03			1.00		C
ATOM		CD			237	15.03			1.00		C
MOTA		CE			237	13.74			1.00		Č
MOTA	3590	NZ			237	12.68					N
MOTA	3594	С			237	19.29		6 0.759	1.00	76.46	C
MOTA		0			237	20.31				72.36	0
MOTA		N			238	19.21			1.00		N
MOTA MOTA		CA			238 238	20.32			1.00		C
ATOM		CB CG	ASP			19.97 19.77			$\frac{1.00}{1.00}$		C
ATOM			ASP			20.40					ő
MOTA	3605		ASP			19.01			1.00		0
ATOM		С	ASP	A	238	20.64			1.00		C
MOTA		0			238	21.77			1.00		0
MOTA		N			239	19.64			1.00		N
MOTA MOTA		CA CB	THR			19.82			1.00		C
MOTA MOTA			THR		239 239	19.79 20.37			1.00 1.00		C 0
ATOM			THR			18.37			1.00		C
MOTA		C	THR			18.76			1.00		č
MOTA	3621	0	THR			17.69			1.00		0
ATOM		N	CYS			19.07			1.00		N
ATOM	3624	CA	CYS	A	240	18.07	3 18.04	6.850	1.00	87.41	C

ATOM 3626	CB CYS	A 240	18.686	17.977	8.227	1.00 85.89	С
ATOM 3629		A 240	19.820	16.589	8.264	1.00 84.87	S
		A 240			6.784		Ċ
ATOM 3630			17.039	19.132		1.00 93.59	
ATOM 3631		A 240	17.356	20.313	6.683	1.00 95.73	0
ATOM 3632		A 241	15.780	18.740	6.812	1.00 55.04	И
ATOM 3633	CA PRO	A 241	14.682	19.707	6.985	1.00 56.88	C
ATOM 3635	CB PRO	A 241	13.431	18.836	7.235	1.00 58.19	C
ATOM 3638	CG PRO	A 241	13.919	17.393	7.321	1.00 57.06	C
ATOM 3641	CD PRO	A 241	15.281	17.357	6.687	1.00 54.91	C
ATOM 3644		A 241	14.936	20.540	8.198	1.00 57.83	C
ATOM 3645		A 241	15.201	20.028	9.281	1.00 57.58	Ō
ATOM 3646		A 242	14.852	21.827	8.038	1.00 58.40	И
ATOM 3647		A 242	15.392	22.690	9.071	1.00 59.18	C
ATOM 3649		A 242	15.812	23.929	8.325	1.00 59.59	C
ATOM 3652		A 242	15.087	23.771	6.931	1.00 60.42	C
ATOM 3655		A 242	14.198	22.555	6.961	1.00 58.64	C
ATOM 3658		A 242	14.349	22.986	10.097	1.00 60.49	C
ATOM 3659	O PRO	A 242	13.169	22.609	9.956	1.00 58.83	0
ATOM 3660	N LEU	A 243	14.859	23.681	11.113	1.00 61.42	N
ATOM 3662	CA LEU	A 243	14.198	23.925	12.387	1.00 63.21	C
ATOM 3664	CB LEU	A 243	15.253	24.301	13.402	1.00 63.51	С
ATOM 3667	CG LEU	A 243	16.030	23.016	13.747	1.00 64.54	С
ATOM 3669	CD1 LEU		17.404	23.380	14.430	1.00 64.32	Č
ATOM 3673	CD2 LEU		15.119	21.989	14.577	1.00 64.65	č
ATOM 3677		A 243	13.212	25.037	12.331	1.00 64.28	Č
ATOM 3678							
		A 243	12.271	25.089	13.119	1.00 65.42	0
ATOM 3679		A 244	13.425	25.919	11.372	1.00 63.70	N
ATOM 3681		A 244	12.606	27.066	11.251	1.00 65.18	C
ATOM 3683		A 244	13.312	28.151	11.980	1.00 65.81	С
ATOM 3686		A 244	13.551	27.784	13.412	1.00 66.25	С
ATOM 3689	SD MET	A 244	13.078	29.142	14.347	1.00 72.32	S
ATOM 3690	CE MET	A 244	11.731	28.403	15.295	1.00 73.17	C
ATOM 3694	C MET	A 244	12.399	27.474	9.833	1.00 65.08	C
ATOM 3695	O MET	A 244	13.312	27.447	9.054	1.00 63.58	0
ATOM 3696		A 245	11.177	27.876	9.529	1.00 67.08	N
ATOM 3698		A 245	10.803	28.355	8.241	1.00 67.76	C
ATOM 3700		A 245	9.739	27.435	7.703	1.00 68.55	c
ATOM 3703		A 245	10.253	26.021	7.432	1.00 67.01	C
ATOM 3705	CD1 LEU						
			9.067	25.110	7.212	1.00 68.07	C
ATOM 3709	CD2 LEU		11.186	25.963	6.238	1.00 65.23	C
ATOM 3713		A 245	10.185	29.719	8.344	1.00 70.42	C
ATOM 3714		A 245	9.435	29.957	9.281	1.00 71.97	0
ATOM 3715		. A 246	10.457	30.590	7.355	1.00 70.54	N
ATOM 3717	CA TYR	A 246	9.619	31.746	7.100	1.00 72.93	C
ATOM 3719	CB TYR	A 246	10.028	32.498	5.833	1.00 72.99	C
ATOM 3722	CG TYR	A 246	9.424	33.903	5.785	1.00 76.04	C
ATOM 3723	CD1 TYR	A 246	10.123	34.980	6.284	1.00 76.12	C
ATOM 3725	CE1 TYR	A 246	9.595	36.220	6.294	1.00 78.89	С
ATOM 3727	CZ TYR	A 246	8.358	36.417	5.810	1.00 80.72	C
ATOM 3728		A 246	7.871	37.715	5.849	1.00 84.16	0
ATOM 3730	CE2 TYR		7.616	35.344	5.325	1.00 79.96	C
ATOM 3732	CD2 TYR		8.134	34.126	5.310	1.00 76.25	Ċ
ATOM 3734		A 246	8.167	31.318	6.950	1.00 75.65	Č
ATOM 3735		A 246	7.842	30.513	6.113	1.00 75.18	0
ATOM 3736		A 247	7.289	31.893	7.749	1.00 79.06	N
ATOM 3738		A 247	5.865	31.606	7.710	1.00 81.97	С
ATOM 3740		A 247	5.369	31.485	9.144	1.00 83.33	С
ATOM 3743		A 247	4.117	30.711	9.248	1.00 86.35	С
ATOM 3744	OD1 ASN		3.048	31.184	8.805	1.00 90.91	0
ATOM 3745	ND2 ASN	A 247	4.212	29.494	9.824	1.00 83.97	N
ATOM 3748	C ASN	A 247	5.152	32.746	7.008	1.00 84.93	C
ATOM 3749		A 247	5.206	33.878	7.458	1.00 85.90	0
ATOM 3750		A 248	4.500	32.451	5.903	1.00 86.39	N
ATOM 3751		A 248	3.782	33.478	5.096	1.00 90.09	C
ATOM 3751		A 248	3.144	32.675	3.968	1.00 90.03	C
ATOM 3756		A 248	3.918	31.316	3.957	1.00 86.36	C
ATOM 3759		A 248	4.423	31.092	5.346	1.00 84.43	C
ATOM 3762	C PRO	A 248	2.673	34.251	5.837	1.00 94.90	С

ATOM 37	763 0	PRO	Α	248	2.511	35.494	5.688	1.00 96.88	0
ATOM 37		THR			1.905	33.491	6.619	1.00 96.37	N
		THR							C
ATOM 37					0.842	34.054	7.446	1.00101.00	
ATOM 37		THR			-0.184	32.930	7.919	1.00102.23	C
ATOM 37		THR			-1.321	32.895	7.044	1.00104.68	0
ATOM 37					-0.848	33.250	9.282	1.00105.46	C
ATOM 37	776 C	THR	A	249	1.457	34.842	8.633	1.00100.86	С
ATOM 37	777 0	THR	А	249	1.021	35.972	8.921	1.00104.58	O
ATOM 37	778 N	THR	Α	250	2.463	34.262	9.304	1.00 96.81	N
ATOM 37	780 CA	THR	A	250	3.064	34.893	10.490	1.00 95.38	C
ATOM 37		THR	A	250	3.973	33.896	11.305	1.00 91.35	C
ATOM 37		THR			3.395	32.584	11.401	1.00 90.19	Ö
ATOM 37		THR			4.032	34.315	12.723	1.00 90.15	C
ATOM 37									
		THR			3.893	36.124	10.108	1.00 94.90	C
ATOM 37		THR			4.075	37.028	10.936	1.00 96.04	0
ATOM 37		TYR			4.380	36.156	8.861	1.00 93.34	N
ATOM 37		TYR			5.414	37.103	8.412	1.00 92.01	C
ATOM 37	796 CB	TYR	Α.	251	4.905	38.559	8.423	1.00 95.71	C
ATOM 37	799 CG	TYR	Α.	251	3.736	38.867	7.485	1.00100.54	C
ATOM 38	300 CD1	TYR	Α.	251	2.415	38.810	7.927	1.00103.41	C
ATOM 38	302 CE1	TYR	A.	251	1.387	39.090	7.079	1.00106.88	C
ATOM 38	304 CZ	TYR	A	251	1.655	39.462	5.781	1.00106.57	C
ATOM 38		TYR			0.633	39.762	4.918	1.00110.34	0
ATOM 38		TYR			2.937	39.552	5.333	1.00102.86	c
ATOM 38					3.962	39.262	6.165		C
								1.00100.61	
ATOM 38		TYR			6.699	36.995	9.259	1.00 88.23	C
ATOM 38		TYR			7.362	37.985	9.536	1.00 88.44	0
ATOM 38		GLN			7.059	35.806	9.697	1.00 84.91	N
ATOM 38		GLN			8.325	35.701	10.397	1.00 81.92	С
ATOM 38	317 CB	GLN	A :	252	8.134	36.158	11.840	1.00 82.92	С
ATOM 38	320 CG	GLN	A :	252	7.289	35.204	12.679	1.00 84.45	С
ATOM 38	323 CD	GLN	Α:	252	6.830	35.822	13.980	1.00 88.01	C
ATOM 38	324 OE1	GLN	A :	252	7.570	36.606	14.587	1.00 89.53	0
ATOM 38	325 NE2	GLN	A	252	5.603	35.504	14.406	1.00 89.99	N
ATOM 38		GLN			8.961	34.304	10.327	1.00 78.33	Ċ
ATOM 38		GLN			8.474	33.408	9.676	1.00 76.85	Ö
ATOM 38		MET			10.095	34.153	10.987	1.00 76.53	И
ATOM 38		MET							C
					10.666	32.843	11.258	1.00 74.03	
ATOM 38		MET			12.137	32.999	11.601	1.00 71.87	C
ATOM 38		MET			12.931	33.489	10.435	1.00 71.14	C
ATOM 38		MET			12.878	32.239	9.059	1.00 75.45	S
ATOM 38		MET			12.407	33.204	7.938	1.00 75.10	C
ATOM 38	845 C	MET	A :	253	9.874	32.178	12.387	1.00 75.06	C
ATOM 38	46 O	MET	A :	253	9.697	32.729	13.464	1.00 76.02	0
ATOM 38	147 N	ASP	A	254	9.369	30.994	12.098	1.00 75.32	N
ATOM 38	49 CA	ASP	A	254	8.560	30.212	13.023	1.00 76.65	С
ATOM 38	51 CB	ASP	A	254	7.086	30.304	12.587	1.00 79.52	C
ATOM 38		ASP			6.174	30.884	13.663	1.00 82.89	Ċ
ATOM 38		ASP			6.563	30.843	14.866	1.00 82.32	Ō
ATOM 38		ASP			5.037	31.370	13.376	1.00 86.13	Ö
ATOM 38		ASP			9.022	28.724		1.00 74.63	Č
							13.021		
ATOM 38		ASP			9.382	28.192	11.985	1.00 73.66	0
ATOM 38		VAL			8.988	28.059	14.174	1.00 74.49	N
ATOM 38		VAL			9.301	26.612	14.277	1.00 72.81	С
ATOM 38		VAL			8.787	25.976	15.627	1.00 73.73	C
ATOM 38	65 CG1	VAL	A :	255	9.722	24.890	16.070	1.00 72.16	С
ATOM 38	69 CG2	VAL	A :	255	8.622	27.020	16.785	1.00 76.62	С
ATOM 38	73 C	VAL	A 2	255	8.707	25.762	13.148	1.00 72.23	C
ATOM 38	74 0	VAL			7.497	25.708	12.977	1.00 73.53	0
ATOM 38		ASN			9.566	25.088	12.389	1.00 70.27	N
ATOM 38		ASN			9.101	24.122	11.380	1.00 70.31	C
ATOM 38		ASN			10.182	23.791	10.348	1.00 70.31	C
ATOM 38		ASN			9.858	22.537	9.502	1.00 65.90	С
ATOM 38		ASN			8.855	21.859	9.709	1.00 65.23	0
ATOM 38		ASN			10.740	22.225	8.558	1.00 63.09	N
ATOM 38		ASN			8.719	22.844	12.077	1.00 71.03	С
ATOM 38		ASN	A 2	256	9.570	22.241	12.710	1.00 68.99	0
ATOM 38	89 N	PRO	A 2	257	7.457	22.424	11.954	1.00 74.05	Ñ

ATOM 3890	CA PRO A 257	7.007 21.212 12.660 1.00 74.85	С
ATOM 3892	CB PRO A 257	5.467 21.181 12.420 1.00 77.52	С
ATOM 3895	CG PRO A 257	5.247 21.916 11.101 1.00 78.04	С.
ATOM 3898	CD PRO A 257	6.380 23.014 11.114 1.00 76.18	С
ATOM 3901	C PRO A 257	7.711 19.971 12.080 1.00 72.67	C
ATOM 3902	O PRO A 257	8.226 19.202 12.894 1.00 73.12	O
ATOM 3903	N GLU A 258	7.762 19.793 10.752 1.00 71.09	N
ATOM 3905	CA GLU A 258	8.441 18.626 10.148 1.00 68.98	C
ATOM 3907	CB GLU A 258	8.100 18.532 8.631 1.00 68.15	C
ATOM 3914	C GLU A 258	9.997 18.534 10.399 1.00 66.74	С
ATOM 3915	O GLU A 258	10.638 17.563 9.979 1.00 65.05	О
ATOM 3916	N GLY A 259	10.584 19.518 11.105 1.00 66.61	N
ATOM 3918	CA GLY A 259	12.031 19.749 11.122 1.00 64.31	C
ATOM 3921 ATOM 3922	C GLY A 259	12.826 18.787 11.970 1.00 63.46 12.237 18.134 12.863 1.00 64.80	С
ATOM 3923	O GLY A 259 N LYS A 260	12.237 18.134 12.863 1.00 64.80 14.148 18.732 11.713 1.00 61.22	O N
ATOM 3925	CA LYS A 260	15.061 17.684 12.239 1.00 59.87	C
ATOM 3927	CB LYS A 260	15.012 16.435 11.361 1.00 58.96	C
ATOM 3930	CG LYS A 260	13.635 15.850 11.292 1.00 61.80	C
ATOM 3933	CD LYS A 260	13.592 14.414 10.821 1.00 63.51	Č
ATOM 3936	CE LYS A 260	12.464 14.188 9.801 1.00 64.20	C
ATOM 3939	NZ LYS A 260	11.982 12.820 9.961 1.00 68.50	Ŋ
ATOM 3943	C LYS A 260	16.528 18.103 12.418 1.00 57.61	С
ATOM 3944	O LYS A 260	17.017 18.961 11.792 1.00 57.42	0
ATOM 3945	N TYR A 261	17.211 17.436 13.305 1.00 56.94	N
ATOM 3947	CA TYR A 261	18.543 17.762 13.716 1.00 55.87	C
ATOM 3949	CB TYR A 261	18.663 17.429 15.213 1.00 56.86	C
ATOM 3952	CG TYR A 261	17.714 18.203 16.097 1.00 58.81	C
ATOM 3953	CD1 TYR A 261	16.747 17.586 16.878 1.00 62.63	C
ATOM 3955	CE1 TYR A 261	15.864 18.338 17.722 1.00 63.21	C
ATOM 3957	CZ TYR A 261	15.972 19.694 17.733 1.00 64.10	C
ATOM 3958	OH TYR A 261	15.188 20.526 18.498 1.00 67.69	0
ATOM 3960	CE2 TYR A 261	16.924 20.311 16.958 1.00 64.45	C
ATOM 3962 ATOM 3964	CD2 TYR A 261	17.785 19.570 16.154 1.00 61.93 19.496 16.898 12.904 1.00 54.12	C C
ATOM 3965	C TYR A 261 O TYR A 261	19.496 16.898 12.904 1.00 54.12 19.153 15.858 12.422 1.00 53.80	0
ATOM 3966	N SER A 262	20.729 17.298 12.811 1.00 53.84	N
ATOM 3968	CA SER A 262	21.669 16.598 12.024 1.00 53.32	C
ATOM 3970	CB SER A 262	22.452 17.594 11.178 1.00 52.59	Č
ATOM 3973	OG SER A 262	23.776 17.761 11.661 1.00 53.41	0
ATOM 3975	C SER A 262	22.566 15.727 12.939 1.00 54.56	C
ATOM 3976	O SER A 262	23.248 16.220 13.815 1.00 55.50	0
ATOM 3977	N PHE A 263	22.561 14.423 12.719 1.00 55.44	И
ATOM 3979	CA PHE A 263	23.483 13.544 13.407 1.00 58.17	C
ATOM 3981	CB PHE A 263	22.733 12.590 14.327 1.00 59.86	С
ATOM 3984	CG PHE A 263	23.613 11.673 15.142 1.00 61.87	C
ATOM 3985	CD1 PHE A 263	24.705 12.159 15.826 1.00 62.54	C
ATOM 3987	CE1 PHE A 263	25.441 11.352 16.570 1.00 64.60	C
ATOM 3989 ATOM 3991	CZ PHE A 263 CE2 PHE A 263	25.119 10.015 16.657 1.00 67.48 24.039 9.515 16.003 1.00 65.99	C C
ATOM 3991 ATOM 3993	CD2 PHE A 263	24.039 9.515 16.003 1.00 65.99 23.287 10.334 15.264 1.00 63.61	C
ATOM 3995	C PHE A 263	24.214 12.764 12.367 1.00 58.42	C
ATOM 3996	O PHE A 263	23.644 11.903 11.736 1.00 57.38	Ö
ATOM 3997	N GLY A 264	25.513 13.051 12.319 1.00 60.11	N
ATOM 3999	CA GLY A 264	26.439 12.853 11.228 1.00 59.81	C
ATOM 4002	C GLY A 264	25.990 12.114 10.022 1.00 58.59	c
ATOM 4003	O GLY A 264	26.208 10.919 9.926 1.00 61.26	0
ATOM 4004	N ALA A 265	25.426 12.803 9.068 1.00 56.84	N
ATOM 4006	CA ALA A 265	24.939 12.139 7.818 1.00 55.65	С
ATOM 4008	CB ALA A 265	25.948 11.151 7.134 1.00 55.54	С
ATOM 4012	C ALA A 265	23.642 11.468 8.026 1.00 54.37	С
ATOM 4013	O ALA A 265	23.287 10.620 7.246 1.00 54.14	0
ATOM 4014	N THR A 266	22.924 11.936 9.029 1.00 54.84	N
ATOM 4016	CA THR A 266	21.622 11.451 9.350 1.00 54.78	C
ATOM 4018	CB THR A 266	21.814 10.371 10.300 1.00 56.35	C
ATOM 4020	OG1 THR A 266	21.628 9.203 9.556 1.00 55.31	0
ATOM 4022	CG2 THR A 266	20.782 10.293 11.424 1.00 58.51	C C
ATOM 4026	C THR A 266	20.750 12.549 9.891 1.00 55.45	C

ATOM	4027	0	THR	Α	266		21.247	13.566	10.359	1,00	55.61	0
МОΨΔ	4028	N	CYS	20	267		19.445	12.342	9.755		55.64	
												N
ATOM	4030	CA	CYS	Α	267		18.432	13.347	10.049	1.00	56.01	C
ATOM	4032	CB	CYS	Д	267	-	17.598	13.692	8.831	1 00	54.41	С
	4035	SG			267		18.513					
								14.786	7.754		52.64	S
AT'OM	4036	С	CYS	Α	267		17.547	12.698	11.016	1.00	57.94	C
ATOM	4037	0	CYS	Α	267		17.059	11.627	10.716	1 00	58.45	0
	4038	N			268		17.273	13.378	12.130	1.00	59.39	N
ATOM	4040	ca	VAL	Α	268		16.860	12.719	13.344	1.00	61.02	C
ATOM	4042	CB	VAT.	Δ	268	-	18.164	12.290	14.042		61.46	С
	4044		VAL			-	18.230	12.613	15.536	T.00	61.61	С
ATOM	4048	CG2	VAL	Α	268		18.399	10.822	13.748	1.00	62.00	C
ATOM	4052	C	VZT.	Δ	268	-	16.000	13.647	14.197	1 00	62.66	C
	4053	0			268	-	16.450	14.752	14.458	T.00	62.80	0
ATOM	4054	N	$_{ m LYS}$	Ą	269		14.799	13.212	14.646	1.00	63.83	N
ATOM	4056	CA	LYS	Д	269	-	13.909	14.122	15.410	1 00	65.02	С
ATOM	4058	CB	rxs	А	269	-	12.413	13.700	15.399	1.00	65.91	С
MOTA	4065	С	$_{ m LYS}$	Α	269		14.398	14.338	16.842	1.00	65.84	C
АТОМ	4066	0	T.Y.G	Δ	269	1	L4.126	15.373	17.438		65.90	0
ATOM	4067	N	LYS	А	270	1	L5.099	13.359	17.404	1.00	66.46	N
ATOM	4069	CA	LYS	Α	270	1	L5.659	13.544	18.749	1.00	67.95	C
АТОМ	4071	CB	LYS	Δ	270	1	L4.794	12.868	19.835		68.78	C
	4078	C	LYS	А	270]	L7.118	13.048	18.735	1.00	67.52	C
ATOM	4079	0	LYS	Α	270	1	L7.418	12.037	18.093	1.00	67.82	0
АТОМ	4080	N	CYS	Δ	271		18.029	13.792	19.378		67.18	N
	4082	CA	CYS			7	L9.404	13.329	19.533	T.00	67.14	С
ATOM	4084	$^{\mathrm{CB}}$	CYS	Α	271	2	20.298	14.392	20.163	1.00	67.37	С
ATOM	4087	SG	CYS	А	271	2	20.613	15.867	19.148	1 00	64.80	S
	4088	C	CYS				9.474	12.059				
									20.385		69.08	С
ATOM	4089	0	CYS	А	2/1	1	18.591	11.760	21.157	1.00	69.41	0
ATOM	4090	N	PRO	Α	272	2	20.500	11.265	20.163	1.00	70.38	N
MOTA	4091	CA	PRO	Α	272	2	20.849	10.151	21.051	1 00	72.24	С
	4093	CB	PRO									
							22.117	9.577	20.427		72.83	С
ATOM		CG	PRO	Α	272	- 2	22.339	10.261	19.105	1.00	71.30	С
MOTA	4099	CD	PRO	Α	272	2	21.334	11.334	18.950	1.00	69.52	C
MOTA	4102	С	PRO	Α	272	2	21.148	10.500	22.518		74.35	С
ATOM		o										
			PRO				21.335	11.680	22.899		72.50	0
MOTA	4104	N	ALA	А	273	2	21.207	9.460	23.360	1.00	76.92	N
ATOM	4106	CA	ALA	Α	273	2	21.336	9.770	24.770	1.00	79.31	C
ATOM	4108	CB	ALA	2Δ	273		1.267	8.471	25.704		81.70	č
MOTA		C	ALA				22.660	10.549	24.920	1.00	80.08	С
ATOM	4113	0	ALA	Α	273	2	3.657	10.214	24.269	1.00	81.25	0
MOTA	4114	N	ALA	Α	274	2	2.643	11.606	25.731	1.00	80.37	Ŋ
ATOM		CA	ALA					12.309				
							23.873		26.180		80.79	С
ATOM		CB	ALA	А	274	2	4.953	11.284	26.709	1.00	82.92	C
ATOM	4122	C	ALA	Α	274	2	4.467	13.290	25.124	1.00	79.12	C
MOTA	4123	0	ALA	Δ	274		5.525	13.931	25.359		80.24	0
		-										_
MOTA		N	TYR				3.770	13.426	23.984	T.00	76.37	N
MOTA	4126	$^{\rm CA}$	TYR	Α	275	2	4.059	14.488	23.006	1.00	73.46	C
ATOM	4128	CB	TYR	Α	275	2	3.851	13.945	21.589	1.00	72.66	C
MOTA		CG	TYR									
							4.943	13.029	21.067		73.61	C
ATOM	4132	CD1	TYR	Α	275	2	4.814	11.666	21.160	1.00	75.81	С
MOTA	4134	CE1	TYR	Α	275	2	5.821	10.768	20.623	1.00	78.82	C
MOTA	4136	CZ	TYR				6.949	11.265	19.972		77.14	Ċ
MOTA												
		OH	TYR				7.922	10.378	19.496	T.00	74.15	0
MOTA	4139	CE2	TYR	A.	275	2	7.068	12.649	19.842	1.00	76.49	С
MOTA	4141	CD2	TYR.	Α	275	2	6.066	13.529	20.396	1.00	74.32	С
MOTA		С	TYR				3.253	15.819	23.224		70.60	
												С
MOTA		0	TYR				2.179	15.869	23.817		69.08	0
MOTA	4145	N	VAL	Α	276	2	3.819	16.887	22.710	1.00	68.49	N
MOTA		CA	VAL	Α	276		3.309	18.203	22.896		66.88	C
ATOM		CB										
			VAL				4.361	19.009	23.644		67.40	С
MOTA			VAL			2	4.077	20.468	23.538	1.00	66.99	C
MOTA	4155	CG2	VAL	Α	276	2	4.424	18.581	25.105	1.00	69.12	C
ATOM	4159	C	VAL				3.119	18.799	21.516		65.33	C
ATOM			VAL									
							3.945	18.554	20.648		64.97	0
MOTA			VAL			2	2.077	19.608	21.316		64.18	N
MOTA	4163	CA	VAL	Α	277	2	1.895	20.312	20.051	1.00	63.43	С
												•

ATOM	4165	СВ	VAL	A	277	20.423	20.537	19.793	1.00	63.64	С
	4167	CG1			277	20.178	21.579	18.660		63.81	c
ATOM	41 71	CG2	VAL	Α	277	19.719	19.232	19.503	1.00	63.12	C
	4175	C			277	22.591	21.672	20.042		63.46	C
	4176	0			277 278	22.630	22.344	20.998	1.00		0
	4177 4179	N CA			278	23.107 23.883	22.065 23.273	18.912 18.716	1.00	64.13 65.38	N C
	4181	CB			278	24.924	22.973	17.652		65.09	C
	4183	OG1			278	25.926	22.130	18.219		66.18	Ō
	4185	CG2			278	25.683	24.189	17.208	1.00	67.03	С
	4189	C			278	22.963	24.272	18.124		66.33	C
	4190 4191	O N7			278	21.894	23.912	17.678	1.00	66.13 68.38	0
	4191	N CA			279 279	23.387 22.622	25.530 26.565	18.075 17.371		69.35	N C
	4195	CB			279	23.231	27.974	17.663	1.00	70.17	Č
ATOM	4198	CG	ASP	Α	279	22.622	28.619	18.927	1.00	74.12	C
	4199		ASP			21.509	28.147	19.255	1.00	80.61	0
	4200		ASP			23.129	29.541	19.668		75.22	0
	4201 4202	C O			279 279	22.387 21.493	26.333 26.966	15.837 15.271		68.57 69.77	C
	4203	N			280	23.158	25.484	15.155		67.36	и
	4205	CA			280	22.837	25.161	13.757		66.40	C
ATOM	4207	CB	HIS	A	280	24.111	24.930	12.934	1.00	67.43	C
	4210	CG			280	25.044	26.101	12.966		75.84	C
	4211 4213		HIS			24.803	27.271	12.246		83.72	N
	4215	CE1	HIS			25.755 26.613	28.167 27.618	12.529 13.393		86.54	C N
	4217		HIS			26.187	26.325	13.689		82.80	C
MOTA	4219	С	HIS	A	280	21.928	23.935	13.660		63.82	C
MOTA		0			280	21.670	23.449	12.583		62.82	0
MOTA		N			281	21.454	23.433	14.786		62.07	N
ATOM	4223	CA C			281 281	20.711 21.450	22.192 20.874	14.803 14.599		60.37 58.17	C
MOTA		0			281	20.872	19.957	14.053		54.70	0
MOTA		И			282	22.674	20.769	15.099		58.36	И
MOTA	4230	CA	SER	A	282	23.451	19.518	14.988	1.00	59.80	C
ATOM		CB			282	24.823	19.766	14.377		59.16	C
ATOM ATOM		OG C			282 282	25.214 23.673	21.051 18.870	14.795		62.95	0 C
ATOM		0			282	23.983	19.548	16.322 17.275		60.81	0
MOTA		N			283	23.563	17.547	16.351		61.19	N
ATOM	4241	CA	CYS	A	283	23.886	16.751	17.517	1.00	62.86	С
ATOM		CB			283	23.288	15.378	17.378		62.70	C
ATOM ATOM		SG C			283 283	21.524	15.593	17.275		63.42	S
ATOM		0			283	25.378 26.086	16.643 15.979	17.738 17.042		64.27 64.51	C 0
MOTA		N	VAL			25.827	17.322	18.756		65.87	N
MOTA		CA	VAL			27.194	17.333	19.161		67.25	C
MOTA		CB	VAL			27.645	18.783	19.075		66.98	C
MOTA			VAL			28.287	19.308	20.427		69.20	C
MOTA MOTA		CGZ	VAL VAL			28.515 27.288	18.989 16.742	17.847 20.591		65.40 69.52	C
ATOM		0	VAL			26.303	16.509	21.280		68.60	0
ATOM		N	ARG			28.494	16.492	21.043		72.61	Ŋ
ATOM	4267	CA	ARG			28.679	15.718	22.271	1.00	75.24	C
ATOM		CB	ARG			30.043	15.046	22.222		77.38	С
ATOM ATOM		CG CD	ARG ARG			30.241	14.309 13.520	20.879 20.741		77.58	C
ATOM		NE	ARG			31.506 31.750	12.663	21.889		79.64	N
ATOM		CZ	ARG			32.836	11.910	21.998		88.43	C
ATOM			ARG			33.742	11.916	21.013		89.46	N
ATOM			ARG			33.035	11.135	23.078		92.89	N
MOTA		C	ARG			28.524	16.617	23.501		75.88	С
ATOM ATOM		O N	ARG ALA			27.908 29.080	16.216 17.833	24.524 23.386		76.68	O
ATOM		CA	ALA			29.080	18.805	23.386		75.41	N C
ATOM		CB	ALA			30.314	18.614	25.312		77.22	C
ATOM		С	ALA			29.079	20.218	23.942		73.45	Ċ

ATOM	4298	0	ALA	Α	286	29.676	20.530	22.894	1.00	72.96	0
	4299	N			287	28.406	21.073	24.681		72.05	N
	4301	CA			287	28.399	22.468	24.351	1.00		C
	4303	CB			287	27.642	23.229	25.427	1.00		C
					287						
	4306	SG				25.875	22.940	25.188	1.00		S
	4307	С			287	29.768	23.066	24.284	1.00		С
	4308	0	CYS	A	287	30.617	22.701	25.063	1.00	73.85	0
ATOM	4309	N	GLY	Α	288	29.938	24.051	23.398	1.00	72.69	N
ATOM	4311	CA	GLY	Α	288	31.088	24.947	23.428	1.00	74.02	C
ATOM	4314	C	GLY	Α	288	31.303	25.704	24.750	1.00	75.81	С
ATOM	4315	0	GLY	Α	288	30.500	25.659	25.739	1.00		0
	4316	N			289	32.440	26.388	24.813	1.00		N
	4318	CA			289	32.570	27.523	25.728	1.00		C
	4320	CB									
					289	34.065	27.885	25.926	1.00		C
	4324	C			289	31.802	28.638	25.003	1.00		C
	4325	0			289	31.441	28.499	23.823	1.00		0
	4326	N			290	31.556	29.741	25.680	1.00		N
ATOM	4328	CA	GLU	Α	290	30.674	30.784	25.138	1.00	69.93	C
MOTA	4330	CB	GLU	Α	290	30.933	31.060	23.638	1.00	69.55	C
ATOM	4337	C	GLU	Α	290	29.204	30.388	25.378	1.00	68.43	C
ATOM	4338	0	GLU	Α	290	28.304	31.263	25.434	1.00	66.42	0
ATOM	4339	N			291	28.965	29.076	25.564	1.00		N
	4341	CA			291	27.586	28.561	25.670	1.00		C
	4343	CB			291	27.133	27.982	24.310	1.00		C
	4345				291						
		OG			-	27.904	26.832	23.974	1.00		0
	4348	С			291	27.418	27.540	26.790	1.00		C
	4349	0			291	28.386	27.171	27.433	1.00		0
	4350	N	TYR	A	292	26.187	27.099	27.003	1.00	63.29	N
ATOM	4352	CA	TYR	Α	292	25.873	26.244	28.114	1.00	63.59	C
ATOM	4354	CB	TYR	Α	292	25.605	27.105	29.361	1.00	63.27	C
MOTA	4357	CG	TYR	Α	292	24.345	27.900	29.346	1.00	61.34	C
ATOM	4358	CD1	TYR	A	292	23.232	27.426	29.953	1.00	61.28	С
	4360		TYR			22.064	28.124	29.961	1.00		C
	4362	CZ			292	21.969	29.333	29.317	1.00		C
	4363	OH			292	20.753					
							30.010	29.369	1.00		0
	4365	CE2	TYR			23.089	29.833	28.659	1.00		C
	4367	CD2	TYR			24.269	29.109	28.695	1.00		C
	4369	С			292	24.680	25.364	27.824	1.00		C
ATOM	4370	0	TYR	Α	292	23.902	25.665	26.944	1.00	61.46	0
ATOM	4371	N	GLU	Α	293	24.514	24.283	28.594	1.00	65.22	N
ATOM	4373	CA	GLU	Α	293	23.421	23.337	28.343	1.00	64.96	C
MOTA	4375	CB	GLU	Α	293	23.822	21.946	28.802	1.00	66.42	C
ATOM	4378	CG	GLU	Α	293	22.814	20.850	28.461	1.00	66.78	C
	4381	CD	GLU	Ά	293	23.357	19.453	28.686	1.00		C
	4382	OE1				24.573	19.284	28.917	1.00		0
	4383		GLU			22.541	18.514	28.585	1.00		0
	4384	C			293	22.180	23.740	29.062	1.00		C
	4385	0			293	22.258	24.258	30.131	1.00		0
	4386	N			294	21.037	23.444	28.482	1.00		И
	4388	CA	MET			19.735	23.773	29.048	1.00		C
	4390	CB	MET	A	294	19.444	25.230	28.817	1.00	64.63	C
MOTA	4393	CG	\mathtt{MET}	Α	294	19.548	25.564	27.386	1.00	65.21	C
ATOM	4396	SD	MET	Α	294	18.161	26.233	26.768	1.00	67.82	S
ATOM	4397	CE	MET	Α	294	18.225	27.967	27.430	1.00	68.39	С
MOTA	4401	С	MET	Α	294	18.693	22.959	28.335	1.00	65.12	С
	4402	0	MET			19.053	22.135	27.553	1.00		Ō
	4403	N	GLU			17.409	23.178	28.560	1.00		N
	4405	CA	GLU			16.403	22.270	28.025	1.00		C
	4407	CB	GLU			16.105	21.144	29.030	1.00		C
ATOM		CG	GLU			15.320	19.987	28.420	1.00		C
ATOM		CD	GLU			15.183	18.715	29.276	1.00		C
MOTA			GLU			15.186	18.767	30.490	1.00	69.76	0
	4415	OE2	GLU	Α	295	15.049	17.605	28.700	1.00	77.58	0
ATOM	4416	C	GLU	A	295	15.120	22.957	27.586	1.00	67.10	C
MOTA	4417	0	GLU	Α	295	14.683	23.903	28.155	1.00	66.08	0
MOTA		N	GLU			14.521	22.402	26.557	1.00		N
ATOM		CA			296	13.398	22.997	25.876	1.00		C
ATOM		CB	GLU			13.906	24.045	24.880	1.00		C
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АТОМ	4425	CG	GLU	А	296	12.939	25.175	24.543	1.00	71.32		С
	4428	CD			296	13.505	26.317	23.613		72.51		Č
	4429	OE1	GLU			14.592	26.270	22.931		67.50		Ö
	4430	OE2				12.790	27.333	23.556		76.03		Ō
	4431	С	GLU			12.649	21.830	25.194		71.02		C
	4432	0	GLU			13.163	21.119	24.332		69.99		Ō
	4433	N	ASP			11.435	21.621	25.654		72.87		N
ATOM	4435	CA	ASP			10.564	20.526	25.225		74.19		C
	4437	CB	ASP			9.775	20.856	23.925		74.54		Ċ
	4440	CG	ASP			8.253	20.479	24.078		78.91		C
	4441	OD1	ASP			7.709	19.556	23.383		80.68		0
ATOM	4442	OD2	ASP	A	297	7.528	21.033	24.964		83.36		0
ATOM	4443	С	ASP	А	297	11.184	19.131	25.212	1.00	73.07		С
MOTA	4444	0	ASP	A	297	10.949	18.325	24.330	1.00	72.94		0
ATOM	4445	N	GLY	Α	298	11.922	18.833	26.251	1.00	72.78		N
ATOM	4447	CA	GLY	A	298	12.585	17.537	26.330	1.00	72.97		C
ATOM	4450	C	GLY	Α	298	13.754	17.408	25.377	1.00	71.57		C
ATOM	4451	0	GLY	Α	298	14.020	16.324	24.868	1.00	72.37		0
ATOM	4452	N	VAL	A	299	14.432	18.524	25.111	1.00	70.39		N
ATOM	4454	CA	VAL			15.601	18.557	24.223	1.00	68.75		C
MOTA	4456	CB	VAL			15.264	19.209	22.862		68.23		C
	4458		VAL			16.357	18.967	21.894		67.60		С
	4462		VAL			13.917	18.716	22.298		68.94		С
	4466	С	VAL			16.718	19.382	24.871		67.74		C
ATOM		0	VAL			16.573	20.574	25.068		66.87	,	0
ATOM		N	ARG			17.821	18.729	25.220		67.57		N
ATOM		CA	ARG			19.013	19.425	25.667		66.47		С
ATOM		CB	ARG			19.957	18.390	26.324		67.22		C
ATOM ATOM		C 0	ARG ARG			19.626 19.911	20.231 19.629	24.437 23.366		64.86 63.66		C
ATOM		Ŋ	LYS			19.757	21.576	24.594		63.56		O N
ATOM		CA	LYS			20.400	22.506	23.623		62.09		C
ATOM		CB	LYS			19.365	23.446	23.014		61.81		C
ATOM		CG	LYS			18.004	22.874	22.945		62.27		C
ATOM		CD	LYS			17.127	23.599	21.987		62.22		C
ATOM		CE	LYS			15.767	22.883	21.889		64.18		C
MOTA		NZ	LYS			14.711	23.900	21.583		68.36		N
ATOM	4503	С	LYS	A	301	21.474	23.415	24.208	1.00	61.40		C
ATOM	4504	0	LYS	A	301	21.486	23.655	25.364	1.00	61.73		0
MOTA	4505	N	CYS	A	302	22.354	23.943	23.380	1.00	60.84		N
ATOM	4507	CA	CYS	Α	302	23.324	24.956	23.768	1.00	61.35		C
MOTA	4509	CB	CYS	A	302	24.550	24.881	22.905	1.00	60.99		C
ATOM		SG	CYS			25.368	23.314	23.146	1.00	67.99		S
ATOM		С	CYS			22.794	26.275	23.482		60.63		С
ATOM		0	CYS			22.523	26.536	22.363		62.04		0
ATOM		N	ALA			22.657	27.119	24.472		60.94		N
ATOM		CA	ALA			22.390	28.522	24.292		60.90		C
ATOM ATOM		CB	ALA ALA			21.236	28.950	25.251		60.91		C
ATOM		C	ALA			23.723 24.608	29.290 28.755	24.565		61.01		C
ATOM		Ŋ	LYS			23.867	30.532	25.162 24.114		61.07 61.74		O
ATOM		CA	LYS			25.101	31.306	24.114		62.76		N C
ATOM		CB	LYS			25.383	32.328	23.177		62.14		C
ATOM		C	LYS			24.981	32.007	25.672		63.58		C
ATOM		Ō	LYS			23.927	32.573	26.016		62.97		0
ATOM		N	CYS			26.067	31.947	26.441		64.37		N
ATOM		CA	CYS			26.054	32.434	27.809		64.66		C
ATOM		CB	CYS			27.392	32.217	28.470		65.21		C
ATOM	4545	SG	CYS	Α	305	27.739	30.498	28.766		63.94		S
ATOM	4546	С	CYS			25.781	33.878	27.864	1.00	64.83		C
MOTA	4547	0	CYS	A	305	26.343	34.630	27.095	1.00	64.68		0
MOTA		И	GLU	A	306	24.936	34.253	28.814	1.00	66.05		N
MOTA		CA	GLU			24.524	35.644	29.001		66.80		C
MOTA		CB	GLU			23.563	35.751	30.202		66.67		C
ATOM		С	GLU			25.812	36.489	29.193		67.43		C
ATOM		0	GLU			26.353	37.052	28.177		68.24		0
MOTA		N	GLY			26.321	36.534	30.441		65.77		N
MOTA	4003	CA	GLY	A	301	27.647	37.068	30.683	1.00	65.67		С

MOTA	4566	С	GLY	Α	307	28.789	36.058	30.514	1.00	65.77	С
	4567	0			307	28.749	35.218	29.655		66.29	Ō
	4568	N			308	29.826	36.129	31.345		65.73	N
	4569	CA			308	30.736	34.998	31.452		65.66	Č
	4571	CB			308	31.671	35.399	32.609		66.34	c
	4574	CG			308	31.364	36.818	32.999		65.33	C
	4577	CD			308	30.197	37.256	32.246		65.52	C
	4580	C			308	29,978	33.708	31.807		64.49	C
	4581	0			308	29.013	33.700	32.535		63.44	0
	4582	N			309	30.438	32.594	31.299		64.85	И
	4584	CA			309	29.805	31.354	31.627		64.54	C
	4586	CB			309	30.386	30.212	30.830		65.21	C
	4589	SG			309	29.788	30.212	29.155		66.57	s
	4590	C			309	29.997	31.025	33.032		64.83	C
	4591	0			309	30.976	31.344	33.634		65.61	0
	4592	N			310	29.058	30.285	33.547		60.31	N
	4594	CA			310	29.113	29.882	34.923		57.41	C
	4596	CB			310	27.799	29.192	35.275		58.70	C
	4599	CG	ARG			27.864	28.223	36.449		59.00	Č
	4602	CD	ARG			26.495	27.931	37.089		61.96	C
ATOM		NE	ARG			26.526	28.291	38.498		59.13	N
ATOM		CZ			310	26.658	27.437	39.485		58.19	C
	4608		ARG			26.733	26.108	39.288		62.56	N
ATOM			ARG			26.687	27.939	40.688		54.22	N
ATOM		С	ARG			30.266	28.956	35.092		56.38	, C
ATOM		0	ARG			30.384	27.970	34.367		60.06	0
	4616	N	LYS			31.077	29.253	36.067		52.95	N
	4618	CA	LYS			32.237	28.466	36.405		53.16	C
ATOM		CB	LYS			33.489	29.100	35.809		53.22	Ċ
ATOM	4623	CG	LYS			34.691	28.185	35.636		54.72	Č
ATOM	4626	CD	LYS	Α	311	35.994	28.877	36.020		54.84	Ċ
ATOM	4629	CE	LYS	A	311	37.190	28.137	35.562		55.94	С
ATOM	4632	NZ	LYS	Α	311	37.492	28.559	34.153	1.00	61.52	N
MOTA	4636	C	LYS	A	311	32.370	28.399	37.919	1.00	51.04	C
ATOM	4637	0	LYS	Α	311	32.461	29.412	38.626	1.00	48.96	0
MOTA	4638	N	VAL	Α	312	32.389	27.190	38.441	1.00	52.10	N
MOTA	4640	CA	VAL	Α	312	32.387	27.022	39.879	1.00	49.43	С
ATOM		CB	VAL			31.419	25.856	40.214	1.00	51.43	C
ATOM			VAL			31.644	25.299	41.629		51.31	С
ATOM			VAL			29.941	26.303	40.019		51.87	С
ATOM		C	VAL			33.810	26.792	40.321		47.46	C
MOTA MOTA		0	VAL			34.534	26.134	39.633		48.81	0
ATOM		N C7	CYS			34.224	27.342	41.452		45.64	N
ATOM		CA CB	CYS			35.603	27.139	41.985		46.21	C
ATOM		SG	CYS			36.533 36.511	28.305 28.703	41.639		45.10	C
ATOM		C	CYS			35.674	26.703	39.843 43.482		55.46 44.15	S C
MOTA		0	CYS			35.043	27.684	44.222		44.97	
MOTA		N	ASN			36.502	26.078	43.951		44.46	N O
ATOM		CA	ASN			36.817	25.995	45.346		42.36	C
ATOM		CB	ASN			37.915	24.968	45.553		43.90	C
ATOM		CG	ASN			37.515	23.563	45.052		46.81	C
ATOM			ASN			36.465	23.016	45.453		50.58	0
MOTA			ASN			38.309	23.026	44.099		49.45	N
ATOM		С	ASN			37.278	27.306	45.972		40.41	C
ATOM		0	ASN			37.974	28.140	45.385		40.47	Ō
MOTA	4678	N	GLY	A	315	36.860	27.494	47.209		39.42	N
MOTA	4680	CA	GLY			37.329	28.597	47.998		36.84	С
MOTA	4683	С	GLY	Α	315	38.633	28.342	48.697	1.00	36.39	С
MOTA	4684	0	GLY	Α	315	39.321	27.340	48.580	1.00	36.34	0
MOTA		N	ILE	A	316	38.975	29.319	49.483	1.00	35.62	N
MOTA		CA	ILE	A	316	40.197	29.200	50.208	1.00	36.69	C
MOTA		CB	ILE			40.615	30.542	50.613		34.84	C
ATOM		CG1	ILE			41.327	31.048	49.383		37.92	C
ATOM		CD1	ILE			41.400	32.434	49.319		40.69	С
MOTA			ILE			41.647	30.485	51.734		34.92	C
ATOM ATOM		C 0	ILE			40.093	28.246	51.344		37.13	C
HIOM	4/03	J	ILE	H	210	39.246	28.398	52.197	T.00	36.17	0

ATOM 4704	N GL	VΔ	317	40.969	27.271	51.351	1.00 38.50	N
ATOM 4704			317	40.937	26.289	52.410	1.00 40.78	C
			317		24.924	51.786	1.00 43.80	C
ATOM 4709				40.864				
ATOM 4710			317	41.628	23.995	52.149	1.00 46.54	0
ATOM 4711			318	40.026	24.860	50.760	1.00 43.85	N
ATOM 4713	CA IL	EΑ	318	39.762	23.645	49.983	1.00 46.17	С
ATOM 4715	CB IL	ΕA	318	38.287	23.658	49.611	1.00 45.60	C
ATOM 4717	CG1 IL	EΑ	318	37.441	23.639	50.888	1.00 43.98	C
ATOM 4720	CD1 ILI	EΑ	318	36.125	24.137	50.662	1.00 43.89	С
ATOM 4724	CG2 IL			38.020	22.487	48.661	1.00 47.89	С
ATOM 4728			318	40.520	23.509	48.639	1.00 47.63	C
ATOM 4729			318	40.833	24.543	48.012	1.00 46.75	Ö
				40.735	22.254	48.176		N
ATOM 4730			319				1.00 49.13	
ATOM 4732			319	41.097	21.976	46.806	1.00 49.93	C
ATOM 4735			319	42.480	22.498	46.473	1.00 50.82	C
ATOM 4736			319	43.460	22.255	47.179	1.00 50.60	0
ATOM 4737	n GL	U A	320	42.574	23.195	45.349	1.00 51.94	N
ATOM 4739	CA GL	UΑ	320	43.811	23.859	44.916	1.00 52.89	C
ATOM 4741	CB GL	U A	320	43.504	24.771	43.735	1.00 53.88	C
ATOM 4744	CG GL	U A	320	42.802	24.123	42.555	1.00 59.54	C
ATOM 4747			320	41.252	24.262	42.562	1.00 63.07	С
ATOM 4748	OE1 GL			40.603	24.715	43.485	1.00 57.30	0
ATOM 4749	OE2 GL			40.630	23.836	41.573	1.00 75.97	Ō
ATOM 4750			320	44.342	24.781	46.010	1.00 50.87	C
								Ö
ATOM 4751			320	45.521	25.097	46.022	1.00 52.50	
ATOM 4752			321	43.445	25.243	46.893	1.00 47.74	N
ATOM 4754			321	43.796	25.996	48.048	1.00 45.39	C
ATOM 4756			321	42.903	27.163	48.113	1.00 43.88	C
ATOM 4759	CG TY	R A	321	42.549	27.735	46.790	1.00 47.78	C
ATOM 4760	CD1 TY	R A	321	41.299	27.545	46.250	1.00 51.91	C
ATOM 4762	CE1 TY	R A	321	40.963	28.042	45.044	1.00 54.97	C
ATOM 4764	CZ TYI	R A	321	41.861	28.800	44.366	1.00 58.00	С
ATOM 4765			321	41.452	29.315	43.136	1.00 61.65	0
ATOM 4767	CE2 TY			43.129	29.019	44.881	1.00 55.75	С
ATOM 4769	CD2 TY			43.461	28.453	46.077	1.00 54.38	Ċ
ATOM 4771			321	43.715	25.308	49.398	1.00 45.37	Č
					25.950	50.371	1.00 43.57	Ö
ATOM 4772			321	43.438				
ATOM 4773			322	44.043	24.018	49.489	1.00 49.57	N
ATOM 4775			322	44.267	23.354	50.814	1.00 50.70	C
ATOM 4777			322	44.619	21.795	50.737	1.00 52.77	С
ATOM 4784	C LY:	s A	322	45.384	24.199	51.513	1.00 49.99	С
ATOM 4785	O LY:	s A	322	46.427	24.525	50.921	1.00 51.02	0
ATOM 4786	N AS:	PΑ	323	45.144	24.600	52.746	1.00 48.30	N
ATOM 4788	CA ASI	PΑ	323	46.253	25.036	53.583	1.00 47.80	C
ATOM 4790	CB ASI	PΑ	323	47.442	24.075	53.481	1.00 51.14	С
ATOM 4793	CG AS	PΑ	323	47.180	22.729	54.109	1.00 53.64	С
ATOM 4794	OD1 AS	PΑ	323	46.376	22.621	55.075	1.00 52.75	0
ATOM 4795	OD2 AS			47.796	21.713	53.701	1.00 58.75	0
ATOM 4796			323	46.770	26.367	53.240	1.00 45.65	Č
ATOM 4797			323	47.821	26.714	53.723	1.00 47.47	ő
								N
ATOM 4798			324	46.044	27.125	52.438	1.00 43.32	
ATOM 4800			324	46.390	28.510	52.161	1.00 41.79	C
ATOM 4802			324	46.201	28.796	50.677	1.00 42.47	C
ATOM 4805			324	45.674	27.663	50:062	1.00 45.77	0
ATOM 4807			324	45.537	29.476	52.905	1.00 37.75	C
ATOM 4808	O SEI	R A	324	44.411	29.412	52.773	1.00 37.31	0
ATOM 4809	N LE	U A	325	46.096	30.432	53.610	1.00 37.13	И
ATOM 4811			325	45.334	31.298	54.493	1.00 35.04	C
ATOM 4813			325	46.238	32.059	55.405	1.00 35.20	C
ATOM 4816			325	47.124	31.230	56.304	1.00 38.21	Ċ
ATOM 4818	CD1 LE			48.006	32.088	57.155	1.00 38.14	č
	CD1 LE			46.216	30.335	57.130	1.00 38.92	C
ATOM 4822								C
ATOM 4826			325	44.533	32.325	53.776	1.00 33.99	
ATOM 4827			325	43.445	32.619	54.178	1.00 32.49	0
ATOM 4828			326	45.048	32.884	52.693	1.00 35.06	N
ATOM 4830			326	44.248	33.883	51.961	1.00 32.80	C
ATOM 4832	CB SE	R A	326	44.583	35.203	52.587	1.00 31.79	C
ATOM 4835	OG SE	R A	326	44.971	36.156	51.666	1.00 32.01	0

ATOM 4837	C SER A 326	44.404	33.929	50.432	1.00 33.06	С
ATOM 4838	O SER A 326	45.192	33.247	49.857	1.00 33.84	Ö
ATOM 4839	N ILE A 327	43.595	34.725	49.773	1.00 32.82	И
ATOM 4841	CA ILE A 327	43.767	34.943	48.360	1.00 34.47	C
ATOM 4843	CB ILE A 327	42.689	35.862	47.848	1.00 34.47	Č
ATOM 4845	CG1 ILE A 327	41.498	35.102	47.344	1.00 34.32	C
ATOM 4848		40.210				
	CD1 ILE A 327 CG2 ILE A 327		35.936	47.450	1.00 39.37	C C
ATOM 4852		43.072	36.537	46.591	1.00 38.67	
ATOM 4856	C ILE A 327	45.050	35.640	48.320	1.00 34.57	C
ATOM 4857	O ILE A 327	45.288	36.446	49.182	1.00 34.42	0
ATOM 4858	N ASN A 328	45.886	35.347	47.332	1.00 36.41	N
ATOM 4860	CA ASN A 328	47.298	35.754	47.372	1.00 37.37	C
ATOM 4862	CB ASN A 328	48.002	35.038	48.522	1.00 37.48	C
ATOM 4865	CG ASN A 328	48.542	33.692	48.173	1.00 39.49	C
ATOM 4866	OD1 ASN A 328	49.033	33.448	47.064	1.00 46.88	0
ATOM 4867	ND2 ASN A 328	48.542	32.803	49.165	1.00 39.97	N
ATOM 4870	C ASN A 328	48.051	35.653	46.050	1.00 39.52	C
ATOM 4871	O ASN A 328	47.569	35.036	45.117	1.00 40.76	0
ATOM 4872	N ALA A 329	49.204	36.297	45.922	1.00 41.21	N
ATOM 4874	CA ALA A 329	49.894	36.340	44.585	1.00 44.38	С
ATOM 4876	CB ALA A 329	51.307	36.867	44.702	1.00 46.80	C
ATOM 4880	C ALA A 329	49.981	35.028	43.836	1.00 45.40	C
ATOM 4881	O ALA A 329	49.799	34.986	42.642	1.00 45.54	0
ATOM 4882	N THR A 330	50.308	33.986	44.577	1.00 45.70	N
ATOM 4884	CA THR A 330	50.416	32.677	44.025	1.00 48.70	С
ATOM 4886	CB THR A 330	50.997	31.669	45.089	1.00 49.87	C
ATOM 4888	OG1 THR A 330	52.331	32.048	45.543	1.00 51.51	0
ATOM 4890	CG2 THR A 330	51.204	30.298	44.458	1.00 50.43	С
ATOM 4894	C THR A 330	49.057	32,212	43.479	1.00 47.89	С
ATOM 4895	O THR A 330	48.914	31.950	42.295	1.00 51.27	0
ATOM 4896	N ASN A 331	48.053	32.168	44.321	1.00 44.82	N
ATOM 4898	CA ASN A 331	46.806	31.518	43.978	1.00 43.96	С
ATOM 4900	CB ASN A 331	46.163	30.942	45.241	1.00 41.18	Ċ
ATOM 4903	CG ASN A 331	45.825	32.001	46.294	1.00 38.02	Ċ
ATOM 4904	OD1 ASN A 331	45.247	33.040	46.021	1.00 35.91	Ō
ATOM 4905	ND2 ASN A 331	46.133	31.684	47.528	1.00 38.74	N ·
ATOM 4908	C ASN A 331	45.750	32.358	43.246	1.00 44.04	Ċ
ATOM 4909	O ASN A 331	44.746	31.828	42.838	1.00 43.86	Õ
ATOM 4910	N ILE A 332	45.930	33.662	43.099	1.00 43.98	И
ATOM 4912	CA ILE A 332	44.823	34.466	42.632	1.00 42.84	C
ATOM 4914	CB ILE A 332	45.126	35.929	42.836	1.00 42.58	Č
ATOM 4916	CG1 ILE A 332	44.037	36.797	42.283	1.00 44.23	Č
ATOM 4919	CD1 ILE A 332	43.052	37.052	43.195	1.00 43.72	Č
ATOM 4919	CG2 ILE A 332	46.249	36.384	42.012	1.00 47.11	C
ATOM 4923	C ILE A 332	44.578	34.128	41.178	1.00 47.11	C
						0
ATOM 4928		43.489	34.240	40.691	1.00 45.59	
ATOM 4929	N LYS A 333	45.597	33.700 33.357	40.442	1.00 49.20	N
ATOM 4931	CA LYS A 333	45.375		39.021	1.00 51.11	C
ATOM 4933	CB LYS A 333	46.690	33.013	38.339	1.00 54.36	C
ATOM 4936	CG LYS A 333	47.406	31.694	38.725	1.00 57.01	C
ATOM 4939	CD LYS A 333	48.821	31.590	37.959	1.00 62.54	C
ATOM 4942	CE LYS A 333	49.910	30.629	38.656	1.00 65.67	C
ATOM 4945	NZ LYS A 333	50.727	29.668	37.638	1.00 68.40	N
ATOM 4949	C LYS A 333	44.323	32.280	38.822	1.00 50.34	C
ATOM 4950	O LYS A 333	43.582	32.338	37.868	1.00 51.26	0
ATOM 4951	N HIS A 334	44.258	31.317	39.738	1.00 49.08	N
ATOM 4953	CA HIS A 334	43.312	30.206	39.685	1.00 49.27	C
ATOM 4955	CB HIS A 334	43.659	29.165	40.744	1.00 48.44	С
ATOM 4958	CG HIS A 334	44.980	28.524	40.539	1.00 53.18	С
ATOM 4959	ND1 HIS A 334	45.158	27.442	39.698	1.00 59.88	N
ATOM 4961	CE1 HIS A 334	46.441	27.119	39.674	1.00 62.27	C
ATOM 4963	NE2 HIS A 334	47.095	27.941	40.481	1.00 59.52	N
ATOM 4965	CD2 HIS A 334	46.199	28.819	41.045	1.00 54.75	C
ATOM 4967	C HIS A 334	41.853	30.601	39.909	1.00 47.75	C
ATOM 4968	O HIS A 334	40.986	29.750	39.847	1.00 48.67	0
ATOM 4969	N PHE A 335	41.579	31.874	40.217	1.00 46.14	N
ATOM 4971	CA PHE A 335	40.196	32.413	40.254	1.00 44.55	C
ATOM 4973	CB PHE A 335	40.053	33.427	41.378	1.00 41.24	C

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40.05532.82742.6811.0039.3241.22332.55143.3071.0039.5741.22231.93644.5251.0040.84 ATOM 4976 CG PHE A 335 ATOM 4977 CD1 PHE A 335 C ATOM 4979 CE1 PHE A 335 ATOM 4981 CZ PHE A 335 40.043 31.617 45.104 1.00 41.14 38.863 31.842 44.455 1.00 40.09 ATOM 4983 CE2 PHE A 335 38.876 32.428 43.255 1.00 40.14 39.687 33.101 38.960 1.00 46.58 38.620 33.706 39.041 1.00 45.62 ATOM 4985 CD2 PHE A 335 ATOM 4987 PHE A 335 С С ATOM 4988 O PHE A 335 0 40.399 32.984 37.819 1.00 48.98 ATOM 4989 N LYS A 336 N ATOM 4991 CA LYS A 336 40.046 33.678 36.590 1.00 51.49 C ATOM 4993 CB LYS A 336 41.121 33.576 35.481 1.00 53.28 С 38.721 33.111 36.086 1.00 53.24 38.578 31.885 35.942 1.00 55.91 37.749 33.990 35.837 1.00 52.95 ATOM 5000 LYS A 336 C C ATOM 5001 LYS A 336 0 ATOM 5002 N ASN A 337 N ATOM 5004 CA ASN A 337 36.461 33.566 35.321 1.00 54.28 36.652 32.725 34.105 1.00 57.90 37.513 33.373 33.127 1.00 61.13 37.278 34.525 32.791 1.00 60.64 ATOM 5006 CB ASN A 337 С ATOM 5009 CG ASN A 337 C ATOM 5010 OD1 ASN A 337 0 38.553 32.662 32.664 1.00 67.20 ATOM 5011 ND2 ASN A 337 N 35.581 32.785 36.259 1.00 52.45 34.540 32.290 35.832 1.00 52.89 35.970 32.691 37.527 1.00 49.80 35.126 32.034 38.473 1.00 49.56 35.803 31.803 39.799 1.00 47.52 ATOM 5014 С ASN A 337 ATOM 5015 0 ASN A 337 0 ATOM 5016 N CYS A 338 N ATOM 5018 CA CYS A 338 ATOM 5020 CB CYS A 338 C 35.803 31.803 39.799 1.00 47.52 37.211 30.611 39.508 1.00 59.20 33.979 32.932 38.628 1.00 47.35 34.130 34.149 38.726 1.00 46.23 32.834 32.301 38.627 1.00 46.93 31.599 32.968 38.809 1.00 47.23 30.770 32.593 37.622 1.00 50.51 30.642 33.782 36.857 1.00 53.34 29.337 32.064 37.962 1.00 50.61 30.930 32.648 40.135 1.00 45.18 ATOM 5023 SG CYS A 338 ATOM 5024 C CYS A 338 С ATOM 5025 0 CYS A 338 0 ATOM 5026 THR A 339 N N ATOM 5028 CA THR A 339 C ATOM 5030 CB THR A 339 С ATOM 5032 OG1 THR A 339 0 ATOM 5034 CG2 THR A 339 С ATOM 5038 C THR A 339 С ATOM 5039 THR A 339 30.247 33.470 40.689 1.00 44.47 30.247 33.470 40.005 1.00 45.15 31.129 31.439 40.632 1.00 45.15 0 ATOM 5040 N SER A 340 30.623 31.025 41.933 1.00 43.31 29.379 30.132 41.733 1.00 45.83 29.249 29.081 42.698 1.00 44.04 ATOM 5042 CA SER A 340 С ATOM 5044 CB SER A 340 С ATOM 5047 OG SER A 340 0 ATOM 5049 SER A 340 31.702 30.248 42.678 1.00 41.72 С С ATOM 5050 SER A 340 32.352 29.358 42.130 1.00 43.56 0 0 31.840 30.554 43.938 1.00 38.97 32.891 30.013 44.722 1.00 38.11 33.577 31.124 45.410 1.00 36.26 ATOM 5051 ILE A 341 N И ATOM 5053 CA ILE A 341 ATOM 5055 CB ILE A 341 С ATOM 5057 CG1 ILE A 341 34.447 31.785 44.365 1.00 37.48 С
 34.986
 32.997
 44.783
 1.00
 39.65

 34.370
 30.578
 46.573
 1.00
 36.38

 32.279
 29.147
 45.704
 1.00
 38.22
 CD1 ILE A 341 ATOM 5060 С ATOM 5064 CG2 ILE A 341 С ATOM 5068 C ILE A 341 С 31.424 29.588 46.497 1.00 36.50 ATOM 5069 0 ILE A 341 0 ATOM 5070 N SER A 342 32.702 27.897 45.679 1.00 40.02 N 32.138 26.946 46.612 1.00 41.56 31.753 25.639 45.909 1.00 44.24 32.513 24.550 46.357 1.00 49.61 ATOM 5072 CA SER A 342 С ATOM 5074 CB SER A 342 С ATOM 5077 OG SER A 342 0 33.114 26.871 47.782 1.00 39.51 ATOM 5079 C SER A 342 С ATOM 5080 O SER A 342 34.143 26.269 47.719 1.00 40.40 0 32.762 27.578 48.840 1.00 38.27 33.645 27.834 49.938 1.00 37.00 ATOM 5081 N GLY A 343 N ATOM 5083 CA GLY A 343 С 33.681 29.322 50.263 1.00 35.53 ATOM 5086 C GLY A 343 C 32.754 30.074 49.877 1.00 34.59 ATOM 5087 GLY A 343 0 ATOM 5088 N ASP A 344 34.775 29.727 50.970 1.00 34.54 Ν 34.920 31.070 51.544 1.00 32.00 ATOM 5090 CA ASP A 344 C 35.234 30.977 53.032 1.00 31.72 34.574 29.830 53.703 1.00 34.32 ATOM 5092 CB ASP A 344 С ATOM 5095 CG ASP A 344 С 33.317 29.772 53.622 1.00 41.66 ATOM 5096 OD1 ASP A 344 0 ATOM 5097 OD2 ASP A 344 35.178 28.928 54.346 1.00 35.55 0 ATOM 5098 C ASP A 344 36.025 31.826 50.797 1.00 30.48 C ATOM 5099 0 ASP A 344 36.853 31.209 50.204 1.00 31.17 35.995 33.146 50.824 1.00 28.65 0 ATOM 5100 1.00 28.65 N LEU A 345 37.056 33.969 50.344 1.00 29.65 ATOM 5102 CA LEU A 345 C

ATOM	5104	CB	LEU	А	345	36.479	34.951	49.381	1 00	31.28	С
	5107	CG			345	36.877	35.111	47.916		34.49	c
	5109		LEU			37.260	33.825	47.310		39.14	C
	5113		LEU			35.690	35.571	47.155		33.77	C
	5117	C			345	37.580	34.737	51.548		29.18	C
	5118	0			345	36.784	35.296	52.295		29.37	
	5119	Ŋ			346	38.882	34.655	51.810			0
						39.552				29.00	N
	5121	CA			346		35.409	52.838		28.13	C
	5123	CB			346	40.486	34.542	53.655		29.47	C
	5126	CG			346	39.875	33.338	54.278		30.10	С
	5127		HIS			38.833	33.396	55.118		35.14	N
	5129		HIS			38.538	32.196	55.572		35.47	С
	5131		HIS			39.391	31.361	55.089		32.97	N
	5133		HIS			40.268	32.060	54.311		36.36	С
	5135	С			346	40.552	36.345	52.173		29.15	С
	5136	0			346	41.448	35.896	51.405		29.88	0
	5137	N			347	40.509	37.629	52.497	1.00	28.56	N
	5139	CA			347	41.537	38.505	52.005	1.00	28.80	C
	5141	CB	ILE	Α	347	40.914	39.548	51.175	1.00	28.20	C
ATOM	5143	CG1	ILE	Α	347	40.355	38.876	49.939	1.00	28.97	C
ATOM	5146	CD1	ILE	Ά	347	39.286	39.729	49.225	1.00	31.16	C
ATOM	5150	CG2	ILE	А	347	41.951	40.589	50.781	1.00	29.70	C
ATOM	5154	С	ILE	Α	347	42.248	39.072	53.183	1.00	28.89	С
ATOM	5155	0	ILE	Α	347	41.697	39.924	53.810	1.00	29.99	0
ATOM	5156	N	LEU	A	348	43.443	38.605	53.524	1.00	30.00	N
ATOM	5158	ÇA	LEU	Α	348	44.077	39.025	54.787	1.00	30.57	C
ATOM	5160	CB	LEU	Α	348	44.555	37.886	55.605	1.00	30.53	C
ATOM	5163	CG	LEU	Α	348	43.596	36.715	55.576	1.00	31.50	C
MOTA	5165	CD1	LEU	A	348	44.246	35.482	56.211	1.00	32.92	C
ATOM	5169	CD2	LEU	Α	348	42.330	37.083	56.215	1.00	31.99	C
MOTA	5173	C	LEU	Α	348	45.246	39.881	54.475		32.43	C
ATOM	5174	0	LEU	A	348	45.607	39.970	53.337		34.49	0
ATOM	5175	N			349	45.778	40.592	55.455		32.87	N
ATOM	5176	CA	PRO	Α	349	46.973	41.381	55.264		33.99	C
ATOM		CB			349	47.271	41.886	56.659		34.22	C
MOTA		CG	PRO			45.966	42.137	57.153		34.18	C
ATOM		CD			349	45.163	40.881	56.755		32.82	C
ATOM		C	PRO			48.124	40.614	54.726		35.54	Č
ATOM		Ō	PRO			48.893	41.228	53.933		37.23	Ö
ATOM		N	VAL			48.295	39.356	55.124		35.44	N
ATOM		CA	VAL			49.450	38.608	54.559		37.52	C
ATOM		CB	VAL			49.454	37.117	54.856		37.63	C
ATOM			VAL			50.325	36.871	55.983		39.53	C
ATOM			VAL			48.030	36.560	55.008		35.14	C
ATOM		C	VAL			49.551	38.672	53.016		37.28	C
ATOM		0	VAL			50.644	38.668	52.452		37.20	0
ATOM		N	ALA			48.386	38.692	52.387		34.61	N
ATOM		CA	ALA			48.304	38.858	50.982		35.88	
ATOM		CB	ALA			46.880	39.055	50.584		34.44	C
ATOM		C	ALA			49.136	40.024	50.514		37.47	
ATOM		0	ALA			50.006	39.864	49.710		38.97	C
ATOM		N	PHE			48.843	41.210	51.010		37.79	O N
ATOM		CA	PHE			49.495					N
MOTA		CB	PHE			49.493	42.407	50.491		39.28	C
ATOM		CG	PHE				43.607	50.839		37.35	C
ATOM			PHE			47.296	43.459	50.390		35.68	C
ATOM						46.310	43.146	51.249		35.62	C
ATOM			PHE			45.040	42.971	50.821		35.56	C
		CZ	PHE			44.760	43.037	49.504		37.20	C
MOTA			PHE			45.774	43.277	48.616		38.11	C
MOTA			PHE			47.016	43.468	49.070		38.39	C
ATOM		C	PHE			50.912	42.564	50.942		42.10	C
MOTA		0	PHE			51.661	43.264	50.308		45.13	0
ATOM		N	ARG			51.318	41.916	52.018		42.10	N
MOTA			ARG			52.706	42.048	52.408		44.35	C
MOTA			ARG			52.810	42.476	53.863		44.18	C
ATOM		CG	ARG			52.838	41.475	54.889		45.56	C
ATOM			ARG			52.340	41.993	56.328		46.05	C
MOTA	5248	NE	ARG	Α	353	51.908	40.792	57.076	1.00	48.23	И

ATOM 525	0 CZ	ARG	Α	353	50.904	40.702	57.958	1.00	49.69	С
ATOM 525		L ARG			50.159	41.766	58.367		48.00	N
ATOM 525		2 ARG			50.644	39.490	58.462		51.85	N
ATOM 525		ARG			53.606	40.883	52.034		45.87	C
ATOM 525		ARG			54.793	40.995	52.113		49.79	Ö
ATOM 525		GLY			53.077	39.819	51.471		44.58	N
ATOM 526		GLY			53.844	38.608	51.326		45.57	C
ATOM 526		GLY			54.077	37.881	52.646		45.59	C
ATOM 526		GLY			53.795					0
ATOM 526					54.560	38.404 36.657	53.757 52.489		44.40	И
		ASP								
ATOM 526		ASP ASP			54.875	35.747	53.559		49.26	C
ATOM 527					53.675	34.810	53.761		47.45	C
ATOM 527		ASP			53.819	33.857	54.999		52.55	C
ATOM 527		LASP			54.748	33.966	55.843		52.58	0
ATOM 527		ASP			52.964	32.945	55.218		57.12	0
ATOM 527		ASP			56.184	34.963	53.184		52.90	C
ATOM 527		ASP			56.230	34.283	52.193		53.38	0
ATOM 527		SER			57.257	35.097	53.951		55.22	N
ATOM 528		SER			58.449	34.379	53.620		59.39	C
ATOM 528		SER			59.693	35.013	54.276		62.91	C
ATOM 528		SER			59.657	34.911	55.688		63.67	0
ATOM 528		SER			58.280	32.920	54.042		59.92	С
ATOM 528		SER			58.935	31.998	53.497		62.62	0
ATOM 528		PHE			57.411	32.695	55.015		57.30	N
ATOM 529		PHE			57.303	31.355	55.591		58.59	С
ATOM 529		PHE			56.605	31.427	56.964		57.36	С
ATOM 529		PHE			57.294	32.421	57.919		60.90	С
ATOM 529		L PHE			56.748	33.697	58.164		59.90	С
ATOM 529		PHE			57.381	34.597	59.001		62.61	C
ATOM 530		PHE			58.620	34.277	59.612		66.42	С
ATOM 530		PHE			59.197	33.034	59.358		70.78	C
ATOM 530		PHE			58.530	32.102	58.516		68.20	С
ATOM 530		PHE			56.638	30.400	54.612		57.26	C
ATOM 530		PHE			56.959	29.213	54.566		59.38	0
ATOM 530		THR	Α	358	55.781	30.990	53.792	1.00	53.74	N
ATOM 531	1 CA	$_{ m THR}$	А	358	54.993	30.317	52.788	1.00	52.07	С
ATOM 531	3 CB	$_{\mathrm{THR}}$	Α	358	53.638	30.968	52.871	1.00	48.69	C
ATOM 531	5 OG1	THR	Α	358	52.917	30.251	53.847	1.00	49.41	0
ATOM 531		? THR	A	358	52.782	30.701	51.766	1.00	49.09	C
ATOM 532		\mathtt{THR}	Α	358	55.512	30.469	51.384	1.00	52.42	C
ATOM 532		THR	Α	358	54.936	29.873	50.469		50.78	0
ATOM 532		HIS			56.595	31.258	51.252		53.66	N
ATOM 532		HIS			57.166	31.739	49.989		54.99	С
ATOM 532	7 CB	$_{ t HIS}$	A	359	57.756	30.604	49.243	1.00	57.50	C
ATOM 533) CG	HIS	Α	359	58.370	29.588	50.107		58.68	C
ATOM 533		. HIS			59.709	29.584	50.363		63.58	N
ATOM 533		. HIS			60.000	28.539	51.119		64.70	C
ATOM 533		HIS	А	359	58.883	27.896	51.392	1.00	61.34	N
ATOM 533		HIS			57.855	28.510	50.738		58.13	C
ATOM 533		HIS			56.194	32.451	49.042		52.38	С
ATOM 534	0 0	HIS	A	359	56.192	32.210	47.892		53.48	0
ATOM 534	l N	$\mathbf{T}\mathbf{H}\mathbf{R}$	A	360	55,402	33.359	49.534	1.00	50.00	N
ATOM 534	3 CA	THR			54.434	34.040	48.722	1.00	48.70	C
ATOM 534		THR	Α	360	53.195	33.835	49.430	1.00	45.16	C
ATOM 534	7 OG1	THR	Α	360	52.938	32.444	49.359	1.00	46.70	0
ATOM 534	CG2	THR	A	360	52.036	34.453	48.731	1.00	44.91	C
ATOM 535	3 C	\mathtt{THR}	A	360	54.786	35.512	48.561	1.00	48.92	C
ATOM 535	4 0	THR	Α	360	54.978	36.188	49.533	1.00	48.33	0
ATOM 535		PRO			55.010	35.986	47.351	1.00	50.79	N
ATOM 535	5 CA	PRO	A	361	55.426	37.375	47.190	1.00	51.83	C
ATOM 535	3 CB	PRO	Α	361	55.759	37.484	45.706	1.00	54.65	C
ATOM 536	L CG	PRO	Α	361	55.333	36.260	45.089	1.00	54.61	C
ATOM 536	4 CD	PRO	Α	361	55.017	35.248	46.088	1.00	52.35	C
ATOM 536	7 C	PRO	A	361	54.285	38.263	47.500	1.00	48.71	С
ATOM 536	3 0	PRO	Α	361	53.182	37.783	47.427	1.00	47.40	0
ATOM 536	9 и	PRO	A	362	54.507	39.526	47.794	1.00	48.27	N
ATOM 537	CA.	PRO	Α	362	53.421	40.468	47.950	1.00	46.05	С
ATOM 537	2 CB	PRO	Α	362	54.162	41.791	48.029	1.00	47.43	C

AΠC	M 5375	G CG	PRO	Α	362	55	.417	41.523	47.789	1.00	49.64	С
	M 5378				362		.780	40.167	48.028		50.35	Č
	M 5381				362		.473	40.437	46.765		45.74	C
ATC	M 5382	. 0	PRO	A	362	52	.943	40.284	45.696	1.00	49.40	0
ATC	M 5383	N	LEU	Α	363	51	.189	40.595	46.966	1.00	44.33	N
ATC	M 5385	CA	LEU	A	363	50	.174	40.533	45.920	1.00	44.66	С
ATC	M 5387	CB	LEU	A	363	48	.831	40.112	46.510	1.00	41.08	C
	M 5390				363		.517	40.078	45.722	1.00	40.32	С
	M 5392				363		505	39.026	44.654		41.76	C
	M 5396				363		.293	39.759	46.643		37.90	C
	M 5400				363		. 957	41.904	45.321		46.91	C
	M 5401				363		.602	42.858	46.013		46.28	0
)M 5402)M 5404				364 364		.142 .742	41.990 43.191	44.006		50.07 50.91	N C
	M 5404				364		. 197	43.191	41.819		54.23	C
	M 5409				364		.881	44.322	40.987		56.02	C
	M 5410		ASP				213	45.282	41.502			Ō
	M 5411		ASP				278	44.378	39.776		60.00	Ō
ATC	M 5412	C	ASP	A	364	48	. 221	43.399	43.404		47.27	C
ATC	M 5413	0	ASP	A	364	47	.433	42.672	42.883	3 1.00	45.88	0
ATC	M 5414	N	PRO	A	365	47	.821	44.436	44.058	1.00	46.25	N
ATC	M 5415	CA	PRO	A	365		.404	44.751	44.166	1.00	45.25	C
	M 5417				365		.408	46.030	44.972		45.77	C
	M 5420				365		.706	45.971	45.683		46.71	C
	M 5423				365		. 660	45.428	44.709		47.17	C
	M 5426				365		. 610	45.003	42.889		47.18	C
	M 5427				365		431	44.806	43.003		46.77	0
	M 5428 M 5430				366 366		. 155 . 415	45.502 45.498	41.778		50.90 52.74	N C
	M 5430				366		. 289	45.759	39.264		56.32	c
	M 5432				366		779	44.131	40.329		51.62	c
	M 5440				366		737	44.006	39.686		53.12	ō
	M 5441				367		392	43.090	40.873		49.93	N
ATC	M 5443	CA	GLU	Α	367	44	957	41.743	40.530	1.00	49.07	C
ATC	M 5445	CB	GLU	Α	367	46	016	40.748	40.955	1.00	49.47	C
ATC	M 5448	CG	GLU	Α	367	47	. 254	40.827	40.170	1.00	55.32	C
	M 5451				367		521	39.537	39.415		65.30	C
	M 5452		GLU				.045	39.472	38.236			0
	M 5453				367		219	38.601	39.984		69.48	0
	M 5454				367		609	41.341	41.121		44.37	C
	M 5455 M 5456				367 368		.026 .146	40.320 42.122	40.783		43.44 41.59	O N
	M 5458		LEU				862	41.872	42.622			C
	M 5460				368		649	42.755	43.821		37.40	C
	M 5463				368		571	42.306	44.922		37.05	Ċ
ATC	M 5465	CD1					591	43.311	46.006		37.85	C
ATC	M 5469	CD2	LEU	Α	368	42	136	40.982	45.456	1.00	37.21	C
ATC	M 5473	С	LEU	Α	368	40	775	42.088	41.612	1.00	40.58	C
ATC	M 5474	0	LEU	Α	368	39	749	41.513	41.759	1.00	39.88	0
	M 5475				369		013	42.861	40.558		44.30	И
	M 5477				369		101	42.958	39.417		46.16	C
	M 5479				369		752	43.678	38.251		50.23	C
	M 5482				369		.010	45.227	38.506		55.84	C
	M 5483 M 5484		ASP ASP				.507 .782	45.849 45.893	39.505 37.753		57.91 60.79	0
	M 5485				369		621	41.612	38.939		45.71	C
	M 5486				369		531	41.537	38.475		46.84	Õ
	M 5487				370		412	40.553	39.067		45.58	N
	M 5489				370		011	39.148	38.769		46.13	C
	M 5491				370		135	38.210	39.219		46.46	C
ATO	M 5493		ILE				075	37.803	38.072		50.66	C
ATO	м 5496		ILE			43	582	37.835	38.532		51.51	C
ATO	м 5500	CG2	ILE			40	622	36.949	39.735	1.00	47.70	C
	M 5504				370		727	38.626	39.419		43.97	C
	M 5505				370		935	37.986	38.824		45.31	0
	M 5506				371		.532	38.885	40.675		41.68	N
	M 5508				371		290	38.530	41.354		39.69	C
ATO	M 5510	CB	₽₽Û	A	371	31.	476	38.789	42.863	T.00	37.02	С

ATOM	5513	CG	LEU	Α	371	38.785	38.136	43.352	1.00 36.34	C
	5515		LEU			39.215	38.574	44.651	1.00 34.34	C
	5519		LEU			38.586	36.658		1.00 34.34	
								43.371		C
	5523	C			371	36.031	39.257	40.875	1.00 40.31	C
	5524	0			371	34.962	38.940	41.363	1.00 38.85	0
ATOM	5525	N	LYS	Α	372	36.131	40.222	39.959	1.00 42.21	N
ATOM	5527	CA	LYS	Α	372	34.932	40.898	39.422	1.00 43.84	C
ATOM	5529	CB	LYS	Α	372	35.285	41.942	38.377	1.00 46.36	С
ATOM	5532	CG	LYS	Α	372	35.513	43.305	38.954	1.00 47.88	C
	5535	CD			372	36.436	44.155	38.058	1.00 51.39	C
	5538	CE			372	36.918	45.449	38.779	1.00 53.07	C
	5541	NZ			372					
						38.090	46.150	38.045	1.00 59.80	Ŋ
	5545	С			372	33.950	39.980	38.766	1.00 44.83	С
	5546	0			372	32.860	40.345	38.495	1.00 45.62	0
ATOM	5547	N	THR	Α	373	34.355	38.775	38.458	1.00 46.35	N
ATOM	5549	CA	THR	Α	373	33.487	37.815	37.799	1.00 47.94	C
ATOM	5551	CB	THR	Α	373	34.382	36.802	37.192	1.00 48.66	C
ATOM	5553	OG1	THR	Α	373	35.052	37.419	36.130	1.00 51.06	Ō
	5555		THR			33.564	35.865	36.391	1.00 55.55	Č
	5559	ċ			373	32.508	37.084	38.700		
									1.00 45.96	C
	5560	0			373	31.617	36.372	38.216	1.00 48.41	0
	5561	N	VAL			32.706	37.253	39.998	1.00 42.63	N
	5563	CA	VAL			32.140	36.424	41.020	1.00 40.86	С
ATOM	5565	CB	VAL	Α	374	33.088	36.339	42.283	1.00 38.33	C
ATOM	5567	CG1	VAL	Α	374	32.534	35.381	43.293	1.00 37.92	С
ATOM	5571	CG2	VAL	Α	374	34.458	35.804	41.921	1.00 38.98	С
ATOM	5575	С	VAL			30.751	36.893	41.416	1.00 40.06	Ċ
	5576	Ō	VAL			30.539	38.005	41.826	1.00 39.99	0
	5577	N	LYS			29.823	35.983			
								41.353	1.00 40.81	N
	5579	CA	LYS			28.452	36.273	41.649	1.00 42.35	С
	5581	CB	LYS			27.541	35.795	40.477	1.00 46.59	C
	5584	CG	LYS	Α	375	27.777	36.549	39.090	1.00 50.24	C
ATOM	5587	CD	LYS	Α	375	26.669	36.227	38.059	1.00 57.80	C
ATOM	5590	CE	LYS	Α	375	27.128	36.178	36.545	1.00 62.46	C
ATOM	5593	NZ	LYS	A	375	26.016	36.062	35.526	1.00 61.68	N
ATOM	5597	С	LYS	Α	375	28.008	35.654	42.952	1.00 40.06	Ċ
	5598	0	LYS			27.173	36.205	43.624	1.00 39.08	Ö
	5599	N	GLU			28.528	34.503	43.309	1.00 39.23	
										N
	5601	CA	GLU			28.081	33.914	44.552	1.00 39.53	C
	5603	CB	GLU			26.947	32.867	44.334	1.00 41.78	C
	5606	CG	GLU			27.373	31.519	43.819	1.00 44.47	C
	5609	CD	GLU			26.253	30.494	43.764	1.00 47.77	C
ATOM	5610	OE1	GLU	Α	376	25.436	30.495	44.646	1.00 51.29	0
MOTA	5611	OE2	GLU	Α	376	26.180	29.681	42.851	1.00 49.03	0
ATOM	5612	С	GLU	A	376	29.214	33.326	45.341	1.00 37.53	С
ATOM	5613	0	GLU			30.135	32.819	44.752	1.00 38.28	Ō
	5614							46.662		N
	5616	CA	LEU			29.980	32.695	47.555	1.00 35.03	C
ATOM		CB								
			LEU			30.888	33.582	48.445	1.00 32.95	C
MOTA		CG	LEU			31.383	34.875	47.722	1.00 32.32	С
ATOM			LEU			32.373	35.705	48.488	1.00 30.13	C
MOTA		CD2	LEU	Α	377	32.034	34.537	46.491	1.00 36.27	C
MOTA	5631	С	LEU	A	377	29.001	31.854	48.361	1.00 36.88	C
MOTA	5632	0	LEU	Α	377	28.064	32.351	48.983	1.00 37.14	0
ATOM	5633	N	THR	Α	378	29.199	30.548	48.278	1.00 38.82	N
ATOM		CA	THR			28.558	29.513	49.108	1.00 39.57	C
ATOM		CB	THR			29.221	28.290		1.00 41.13	
								48.593		C
ATOM			THR			28.353	27.866	47.593	1.00 41.94	0
ATOM			THR			29.395	27.056	49.550	1.00 44.08	С
ATOM		С	THR			28.753	29.721	50.604	1.00 37.78	С
MOTA	5646	0	THR	A	378	27.843	29.535	51.415	1.00 36.72	0
MOTA	5647	N	GLY	A	379	29.962	30.195	50.908	1.00 36.56	N
MOTA		CA	GLY			30.487	30.357	52.264	1.00 35.72	C
MOTA		С	GLY			30.468	31.774	52.761	1.00 33.26	Č
ATOM			GLY			29.453	32.421	52.744	1.00 33.20	0
MOTA			PHE							
		N				31.604	32.269	53.181	1.00 31.43	N
MOTA	_	CA	PHE			31.641	33.606	53.748	1.00 30.14	С
MOTA	აზეგ	CB	PHE	Α	280	31.949	33.563	55.237	1.00 29.78	С

ATOM 5	661 0	CG	PHE	71	300	33.326	33.040	55.606	1 00	28.19	С
ATOM 5			PHE			34.468	33.856	55.512		26.22	C
ATOM 5	664 C	E1	PHE	Α	380	35.680	33.405	55.974	1.00	25.15	С
ATOM 5	666 C	Z	PHE	Α	380	35.755	32.140	56.510	1.00	26.34	C
ATOM 5	668 C	E2	PHE	Α	380	34.631	31.325	56.573	1.00	27.52	С
ATOM 5			PHE			33.459	31.771	56.148		27.63	C
ATOM 5			PHE			32.649	34.455			28.80	Č
								53.086			
ATOM 5			PHE			33.535	33.928	52.414		30.25	0
ATOM 5	674 N	Į	LEU	Α	381	32.580	35.737	53.345	1.00	26.76	N
ATOM 5	676 C	'A	LEU	Α	381	33.462	36.629	52.687	1.00	27.56	С
ATOM 5	678 C	B	LEU	Α	381	32.671	37.545	51.773	1.00	27.59	C
ATOM 5			LEU			33.418	38.759	51.282		28.54	C
ATOM 5			LEU			34.748	38.298	50.721		30.46	Č
ATOM 5			LEU			32.616	39.439	50.209		32.21	C
ATOM 5			LEU			34.189	37.411	53.743		27.21	C
ATOM 5	692 O)	LEU	А	381	33.594	38.246	54.431	1.00	28.39	0
ATOM 5	693 N	Ī	LEU	Α	382	35.471	37.202	53.868	1.00	26.93	N
ATOM 5	695 C	'A	LEU	Α	382	36.188	37.838	54.953	1.00	27.83	С
ATOM 5			LEU			36.849	36.750	55.764		28.01	C
ATOM 5			LEU			37.909	37.206	56.753		29.87	C
ATOM 5			LEU			37.249	38.057	57.829		31.23	C
ATOM 5	706 C	:D2	LEU	A	382	38.571	36.020	57.423	1.00	29.60	С
ATOM 5	710 C	;	LEU	Α	382	37.239	38.826	54.424	1.00	27.94	C
ATOM 5	711 0)	LEU	Α	382	38.189	38.425	53.770	1.00	28.55	0
ATOM 5	712 N		$_{ m LLE}$			37.106	40.104	54.738		28.44	N
ATOM 5			ILE			37.992	41.136	54.168		29.01	C
			ILE				42.076				
ATOM 5						37.182		53.298		30.11	C
ATOM 5			ILE			36.362	41.266	52.311		31.00	С
ATOM 5	721 C	Dl	$_{ m ILE}$	A	383	35.938	42.136	51.127	1.00	32.70	C
ATOM 5	725 C	:G2	$_{ m LLE}$	Α	383	38.119	43.072	52.508	1.00	29.84	C
ATOM 5	729 C	:	ILE	Α	383	38.695	41.952	55.210	1.00	28.25	С
ATOM 5	730 O)	ILE	Α	383	38.130	42.865	55.743	1.00	27.90	0
ATOM 5			GLN			39.944	41.635	55.486		28.72	N
ATOM 5			GLN			40.640	42.232	56.611		28.78	C
ATOM 5											
			GLN			41.213	41.148	57.429		28.34	C
ATOM 5			GLN			40.192	40.473	58.315		27.69	C
ATOM 5			GLN			40.787	39.489	59.310		25.79	С
ATOM 5	742 O	E1	GLN	Α	384	41.947	39.167	59.277	1.00	29.42	0
ATOM 57	743 N	E2	GLN	Α	384	39.997	39.070	60.220	1.00	29.85	И
ATOM 57	746 C	:	GLN	Α	384	41.735	43.122	56.073	1.00	30.69	С
ATOM 5	747 0)	GLN	Α	384	42.402	43.817	56.826	1.00	33.98	0
ATOM 5			ALA	Д	385	41.892	43.164	54.756	1.00	30.13	N
ATOM 5			ALA			42.856	44.036	54.126		30.49	C
ATOM 5			ALA			44.242	43.332			30.62	C
								54.044			
ATOM 5			ALA			42.348	44.372	52.728		31.09	С
ATOM 5	757 O	,	ALA	A	385	41.586	43.598	52.083	1.00	30.22	0
ATOM 57	758 N	'	TRP	Α	386	42.808	45.504	52.232		32.17	И
ATOM 57	760 C	A	TRP	Α	386	42.343	45.986	50.991	1.00	33.08	C
ATOM 57	762 C	B	TRP	Α	386	40.903	46.412	51.231		32.74	С
ATOM 57			TRP			40.173	46.579	50.012		36.40	C
ATOM 5			TRP			39.885	47.756	49.354		40.08	č
			TRP								
ATOM 57						39.158	47.478	48.227		40.21	N
ATOM 5			TRP			39.049	46.114	48.114		40.12	С
ATOM 5	771 C	D2	TRP	Α	386	39.676	45.539	49.213	1.00	35.62	C
ATOM 57	772 C	E3	TRP	Α	386	39.657	44.174	49.339	1.00	34.88	C
ATOM 57	774 C	Z3	TRP	Α	386	39.049	43.446	48.400	1.00	37.08	C
ATOM 57			TRP			38.429	44.025	47.329		39.08	С
ATOM 57			TRP			38.425	45.359	47.159		42.51	č
ATOM 57			TRP			43.127	47.177	50.563		34.61	C
ATOM 57			TRP			43.390	48.039	51.341		37.82	0
ATOM 5			PRO			43.434	47.332	49.320	1.00	36.03	N
ATOM 57	783 C	A	PRO	Α	387	44.281	48.435	48.949	1.00	38.07	С
ATOM 57	785 C		PRO			44.323	48.312	47.443		39.84	C
ATOM 57			PRO			43.252	47.516	47.081		38.50	Ċ
ATOM 57			PRO			42.989	46.569	48.156		36.66	Ċ
											C
ATOM 57			PRO			43.736	49.784	49.409		39.23	
ATOM 57			PRO			42.603	50.184	49.169		39.83	0
ATOM 57	796 N	. '	GLU	А	೨ ೪೪	44.573	50.483	50.137	1.00	41.44	N

ATOM 5798	CA GLU A 388	44.233 51.	765 50.763	1.00 43.29	С
ATOM 5800	CB GLU A 388		255 51.622	1.00 45.21	C
ATOM 5803	CG GLU A 388		443 52.897	1.00 45.28	C
ATOM 5806	CD GLU A 388	46.796 51.	891 53.654	1.00 52.65	C
ATOM 5807	OE1 GLU A 388	47.893 51.	297 53.459	1.00 53.52	Ο
ATOM 5808	OE2 GLU A 388	46.653 52.	891 54.420	1.00 57.96	0
ATOM 5809	C GLU A 388		887 49.862	1.00 45.35	Č
					Ö
ATOM 5810				1.00 45.89	
ATOM 5811	N ASN A 389		836 48.609	1.00 47.38	N
ATOM 5813	CA ASN A 389	43.678 53.	842 47.663	1.00 50.51	C
ATOM 5815	CB ASN A 389	44.805 54.	240 46.668	1.00 54.16	С
ATOM 5818	CG ASN A 389	45.254 53.	045 45.796	1.00 56.14	С
ATOM 5819	OD1 ASN A 389	45.805 52.	052 46.328	1.00 62.07	0
ATOM 5820	ND2 ASN A 389		055 44.521	1.00 57.83	N
ATOM 5823	C ASN A 389		391 46.860	1.00 49.44	Ċ
ATOM 5824	O ASN A 389		859 45.756	1.00 52.95	0
ATOM 5825	N ARG A 390		494 47.344	1.00 46.09	N
ATOM 5827	CA ARG A 390		217 46.649	1.00 46.76	С
ATOM 5829	CB ARG A 390	40.234 50.	742 46.244	1.00 45.10	C
ATOM 5832	CG ARG A 390	41.217 50.	172 45.285	1.00 47.34	С
ATOM 5835	CD ARG A 390	41.438 50.	956 43.977	1.00 53.54	C
ATOM 5838	NE ARG A 390		412 42.824	1.00 53.39	N
ATOM 5840	CZ ARG A 390		880 42.393	1.00 54.47	C
ATOM 5841				1.00 59.31	N
	NH1 ARG A 390				
ATOM 5844	NH2 ARG A 390		325 41.362	1.00 52.63	N
ATOM 5847	C ARG A 390		536 47.545	1.00 46.14	C
ATOM 5848	O ARG A 390	38.999 51.	940 48.589	1.00 44.17	0
ATOM 5849	N THR A 391	38.283 53.	411 47.114	1.00 48.34	N
ATOM 5851	CA THR A 391	37.246 53.	899 48.039	1.00 47.56	С
ATOM 5853	CB THR A 391	36.645 55.	201 47.543	1.00 50.22	С
ATOM 5855	OG1 THR A 391	35.870 54.	878 46.403	1.00 51.02	0
ATOM 5857	CG2 THR A 391		203 47.035	1.00 51.77	C
ATOM 5861	C THR A 391		893 48.239	1.00 45.74	Ċ
ATOM 5862	O THR A 391		087 49.121	1.00 45.03	Ö
ATOM 5863	N ASP A 392		812 47.467	1.00 44.71	N
ATOM 5865	CA ASP A 392		743 47.833	1.00 42.13	C
ATOM 5867	CB ASP A 392	33.840 50.		1.00 43.91	С
ATOM 5870	CG ASP A 392	33.994 51.	000 45.722	1.00 45.23	С
ATOM 5871	OD1 ASP A 392	35.000 50.	496 45.229	1.00 45.27	0
ATOM 5872	OD2 ASP A 392	33.161 51.	519 45.017	1.00 46.76	0
ATOM 5873	C ASP A 392	35.663 49.	385 47.506	1.00 40.51	С
ATOM 5874	O ASP A 392	36.837 49.	268 47.180	1.00 42.21	0
ATOM 5875	N LEU A 393	34.839 48.	351 47.691	1.00 39.13	N
ATOM 5877	CA LEU A 393	35.208 46.		1.00 37.38	С
ATOM 5879	CB LEU A 393		992 48.238	1.00 35.46	Ċ
ATOM 5882	CG LEU A 393	34.425 46.		1.00 34.54	Ċ
ATOM 5884	CD1 LEU A 393	33.565 45.		1.00 34.20	C
ATOM 5888	CD2 LEU A 393		075 50.173	1.00 34.63	C
ATOM 5892	C LEU A 393	34.967 46.	666 45.901	1.00 38.22	C
ATOM 5893	O LEU A 393	34.103 45.	865 45.572	1.00 38.13	0
ATOM 5894	N HIS A 394	35.752 47.	300 45.025	1.00 38.65	N
ATOM 5896	CA HIS A 394	35.460 47.	287 43.607	1.00 40.24	С
ATOM 5898	CB HIS A 394		073 42.878	1.00 41.20	C
ATOM 5901	CG HIS A 394		539 43.061	1.00 43.28	Ċ
ATOM 5902	ND1 HIS A 394		684 44.242	1.00 44.16	N
ATOM 5904	CE1 HIS A 394		091 44.108	1.00 44.04	C
ATOM 5906	NE2 HIS A 394		535 42.906	1.00 44.28	N
ATOM 5908	CD2 HIS A 394		787 42.240	1.00 44.56	C
ATOM 5910	C HIS A 394		864 43.053	1.00 39.79	С
ATOM 5911	O HIS A 394	34.658 45.		1.00 39.77	0
ATOM 5912	N ALA A 395	36.186 44.	971 43.639	1.00 38.62	N
ATOM 5914	CA ALA A 395	36.342 43.	675 43.038	1.00 38.76	C
ATOM 5916	CB ALA A 395		036 43.581	1.00 37.86	С
ATOM 5920	C ALA A 395		811 43,228	1.00 38.35	Ċ
ATOM 5921	O ALA A 395		819 42.513	1.00 39.40	o
ATOM 5921	N PHE A 396		239 44.111	1.00 36.67	N
ATOM 5922 ATOM 5924	CA PHE A 396		520 44.416	1.00 36.80	C
					C
ATOM 5926	CB PHE A 396	32.934 42.	244 45.922	1.00 35.11	C

ATOM	5929	CG	PHE	Δ	396	34.060	41.284	46.399	1.00 3	34.66	С
ATOM		CD1			396	35.141	41.734	47.116	1.00 3		C
ATOM			PHE			36.149	40.871	47.508	1.00 3		C
ATOM		CZ			396	36.112	39.574	47.201	1.00 3		C
	5936		PHE			35.056	39.084	46.528	1.00 3		C
MOTA			PHE			34.020	39.942	46.097	1.00 3		C
MOTA		C			396	31.709	43.215	43.939	1.00 3		C
ATOM	5941	0	PHE	A	396	30.598	42.884	44.347	1.00 4	10.05	0
ATOM	5942	N	GLU	Α	397	31.828	44.157	43.030	1.00 4	11.06	N
MOTA	5944	CA	GLU	Α	397	30.664	44.849	42.495	1.004	13.09	С
MOTA	5946	CB	GLU	Α	397	31.192	45.871	41.507	1.00 4	15.95	C
MOTA	5949	CG	GLU	A	397	31.738	45.211	40.255	1.00 4	19.91	С
ATOM	5952	CD	GLU	Α	397	32.326	46.179	39.236	1.00 5	8.00	C
MOTA	5953	OE1	GLU	Α	397	31.536	46.971	38.642	1.00 6	3.84	0
ATOM	5954	OE2	GLU	Α	397	33.574	46.098	38.994	1.00 5	9.87	0
MOTA	5955	С	GLU	Α	397	29.588	43.961	41.771	1.00 4	4.36	С
	5956	0			397	28.513	44.449	41.344	1.00 4		0
ATOM		N			398	29.882	42.681	41.554	1.00 4		И
ATOM		CA			398	28.902	41.797	40.905	1.00 4		C
ATOM		CB			398	29.486	41.235	39.638	1.00 4		Č
ATOM		CG			398	29.691	42.290	38.613	1.00 4		Č
ATOM			ASN			28.812	43.035	38.309	1.00 5		0
MOTA			ASN			30.866	42.371	38.097	1.00 4		N
MOTA		C			398	28.408	40.673	41.794	1.00 4		C
MOTA		0			398	27.632	39.847	41.387	1.00 4		0
MOTA		N			399	28.830	40.707	43.033	1.00 4		И
ATOM		CA			399	28.488	39.731	43.975	1.00 3		С
ATOM		CB			399	29.387	39.940	45.179	1.00 3		C
ATOM		CG			399	29.067	39.022	46.299	1.00 3		C
ATOM			LEU			29.351	37.598	45.883	1.00 3		C
ATOM			LEU			29.858	39.414	47.436	1.00 3		C
ATOM		C			399	27.014	39.935	44.321	1.00 4		C
ATOM		0			399	26.567	40.998	44.836	1.00 4		0
ATOM		N			400	26.261	38.884	44.057	1.00 4		N
ATOM		CA			400	24.817	38.875	44.151	1.00 4		C
ATOM		CB			400	24.277	38.174	42.923	1.00 4		C
ATOM		CG			400	24.484	39.044	41.719	1.00 5		C
ATOM		CD			400	24.161	38.401	40.366	1.00 5		C
ATOM			GLU			23.095	37.786	40.242	1.00 5		0
ATOM			GLU			24.980	38.579	39.408	1.00 5		0
ATOM		С			400	24.316	38.192	45.421	1.00 4		C
ATOM	6004	0			400	23.233	38.518	45.885	1.004	4.99	0
ATOM	6005	N	ILE	А	401	25.130	37.306	46.011	1.004	1.83	N
ATOM		$^{\rm CA}$	ILE	Α	401	24.737	36.490	47.162	1.004	0.84	C
ATOM	6009	CB	ILE	Α	401	23.734	35.422	46.710	1.004		С
ATOM	6011	CG1	ILE	Α	401	23.449	34.429	47.814	1.004	3.25	C
ATOM	6014	CD1	ILE	Α	401	22.256	33.586	47.448	1.004	5.27	C
ATOM	6018	CG2	ILE	Α	401	24.253	34.643	45.619	1.00 4	4.73	C
ATOM	6022	C	ILE	А	401	25.897	35.831	47.895	1.00 3	88.33	C
ATOM	6023	0	ILE	Α	401	26.794	35.247	47.303	1.00 3	7.78	0
ATOM	6024	N	ILE	A	402	25.857	35.927	49.206	1.00 3	7.64	N
ATOM	6026	CA	ILE	Α	402	26.758	35.219	50.099	1.00 3	5.89	C
MOTA	6028	CB	ILE	A	402	27.313	36.190	51.117	1.00 3	3.76	C
ATOM	6030	CG1	ILE	Α	402	28.327	37.122	50.428	1.00 3	3.45	C
ATOM	6033.	CD1	ILE	A	402	28.729	38.356	51.238	1.00 3	0.73	С
ATOM	6037	CG2	ILE	A	402	27.959	35.445	52.248	1.00 3	3.22	С
ATOM	6041	С	ILE	А	402	25.872	34.221	50.789	1.00 3	8.27	С
ATOM	6042	0			402	25.042	34.590	51.611	1.00 4	0.21	0
ATOM		N	ARG			25.961	32.954	50.440	1.00 3		N
ATOM		CA	ARG			25.029	31.971	51.036	1.00 4		С
ATOM		CB	ARG			25.094	30.665	50.280	1.00 4		Ċ
ATOM		CG	ARG			24.566	30.759	48.913	1.00 4		Ċ
ATOM		CD	ARG			24.271	29.361	48.306	1.00 4		č
ATOM		NE	ARG			23.861	29.447	46.910	1.00 4		И
ATOM		CZ	ARG			22.741	30.008	46.512	1.00 4		C
ATOM			ARG			21.876	30.503	47.387	1.00 5		N
ATOM			ARG			22.461	30.068	45.235	1.00 5		N
	6065	C	ARG			25.272	31.712	52.541	1.00 4		C
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ATOM 6	6066	0	ARG	Α	403	24.332	31.432	53.262	1.00	41.87	0
ATOM 6		N	GLY			26.520	31.772	52.979		38.47	N
ATOM 6		CA	GLY			26.841	31.694	54.394		38.72	C
ATOM 6		C	GLY			26.779	30.296	55.021		40.86	C
ATOM 6		0	GLY			26.528	30.097	56.219		42.25	0
ATOM 6		N	ARG			26.982	29.284	54.204		41.64	N
ATOM 6		CA	ARG			26.955	27.903	54.687		43.01	C
		CB	ARG			27.068					C
ATOM 6							27.061	53.455		44.80	
ATOM 6		CG	ARG			25.790	26.999	52.727		46.83	C
ATOM 6		CD	ARG			25.923	26.159	51.460		49.83	C
ATOM 6		NE	ARG			24.656	26.202	50.690		54.46	N
ATOM 6		CZ	ARG			24.534	25.597	49.539		55.52	С
ATOM 6			ARG			25.589	24.930	49.073		55.71	N
ATOM 6			ARG			23.379	25.608	48.890		59.28	N
ATOM 6		С	ARG			28.043	27.497	55.659		40.66	С
ATOM 6		0	ARG			27.881	26.744	56.531		41.11	0
ATOM 6		N	THR			29.194	27.962	55.351		40.05	N
ATOM 6		CA	THR			30.381	28.035	56.186		40.02	C
ATOM 6	3102	CB	THR	Α	406	31.557	27.731	55.244	1.00	39.43	C
ATOM 6	6104	OG1	THR	A	406	31.310	26.463	54.715	1.00	43.84	0
ATOM 6	6106	CG2	THR	Α	406	32.910	27.424	55.938	1.00	43.39	C
MOTA	5110	С	THR	A	406	30.393	29.475	56.679	1.00	37.35	C
ATOM 6	5111	0	THR	Α	406	29.970	30.388	55.965	1.00	36.01	0
ATOM 6	5112	N	LYS	A	407	30.744	29.669	57.936	1.00	38.03	N
ATOM 6	5114	CA	LYS	A	407	30.913	31.032	58.480	1.00	37.24	C
ATOM 6	5116	CB	LYS	A	407	29.808	31.396	59.427	1.00	38.61	С
ATOM 6	5119	CG	LYS	Α	407	28.408	31.305	58.843	1.00	39.27	С
ATOM 6	3122	CD	LYS	Α	407	27.467	30.706	59.864	1.00	41.05	С
ATOM 6	6125	CE	LYS			26.150	30.400	59.316	1.00	44.32	С
ATOM 6		NZ	LYS	Α	407	25.229	31.288	60.019	1.00	52.24	N
ATOM 6		C	LYS			32.218	31.114	59.237		37.24	C
ATOM 6		0	LYS			32.849	30.135	59.489		40.60	0
ATOM 6		N	GLN			32.674	32.299	59.552		36.38	N
ATOM 6		CA	GLN			33.979	32.465	60.158		34.55	C
ATOM 6		CB	GLN			34.581	33.801	59.825		32.09	C
ATOM 6		CG	GLN			35.948	33.899	60.498		31.64	C
ATOM 6		CD	GLN			36.473	35.248	60.620		30.23	C
ATOM 6			GLN			35.772	36.221	60.467		39.71	0
ATOM 6			GLN			37.680	35.336	60.852		26.16	N
ATOM 6		C	GLN			33.734	32.402	61.666		35.59	C
ATOM 6		0	GLN			32.869	33.106	62.167		34.95	0
ATOM 6		И	HIS				31.551	62.338		35.68	
ATOM 6		CA	HIS			34.501 34.305	31.239				N
ATOM 6						34.594		63.709		36.96	C
		CB	HIS				32.495	64.525		36.30	C
ATOM 6		CG	HIS			35.974	32.999	64.388		32.03	C
ATOM 6			HIS			37.046	32.335	64.885		36.03	N
ATOM 6			HIS			38.149	32.995	64.602		32.96	C
ATOM 6			HIS			37.823	34.099	63.993		29.44	N
ATOM 6			HIS			36.464	34.108	63.819		33.90	C
ATOM 6		C	HIS			32.898	30.688	63.922		38.45	C
ATOM 6		0	HIS			32.282	30.785	64.967		39.82	0
ATOM 6		N	GLY			32.341	30.135	62.879		39.18	N
ATOM 6		CA	GLY			30.948	29.727	62.974		40.64	C
ATOM 6		С	GLY			30.003	30.872	63.123		39.89	C
ATOM 6		0	GLY			28.908	30.596	63.288		40.91	0
ATOM 6			ASN			30.443	32.129	63.096		39.05	N
ATOM 6		CA	ASN			29.582	33.303	63.276	1.00	39.30	С
ATOM 6	5180	CB	ASN			30.176	34.429	64.213	1.00	39.22	С
ATOM 6	183	CG	ASN	Α	411	30.202	34.049	65.693	1.00	44.51	C
ATOM 6			ASN			29.929	32.909	65.994	1.00	52.63	0
ATOM 6			ASN			30.548	34.986	66.614	1.00	41.99	N
ATOM 6	188	C	ASN			29.312	33.940	61.907	1.00	37.22	С
ATOM 6	189	0	ASN	A	411	28.194	33.948	61.435	1.00	37.23	0
ATOM 6	190	И	PHE	A	412	30.342	34.474	61.278	1.00	34.68	N
ATOM 6	192	CA	PHE	Α	412	30.135	35.478	60.287	1.00	33.77	C
ATOM 6	194	CB	PHE	Α	412	31.294	36.438	60.393		32.92	C
ATOM 6	197	CG	PHE	Α	412	31.440	37.028	61.750		33.90	С
ATOM 6	198	CD1	PHE	A	412	32.607	36.831	62.507		34.35	С

ATOM 6200	CE1 PHE A	412	32.708	37.353	63.793	1.00 31.85	С
ATOM 6202	CZ PHE F			38.084	64.275		C
			31.688			1.00 33.72	
ATOM 6204	CE2 PHE P		30.575	38.290	63.552	1.00 33.28	C
ATOM 6206	CD2 PHE A		30.419	37.748	62.306	1.00 32.58	C
ATOM 6208	C PHE F	1 412	30.053	34.983	58.856	1.00 33.95	C
ATOM 6209	O PHE P	412	30.865	34.164	58.410	1.00 34.69	0
ATOM 6210	N SER A	413	29.101	35.512	58.088	1.00 34.35	N
ATOM 6212	CA SER A	413	29.154	35.319	56.617	1.00 33.33	C
ATOM 6214	CB SER A		27.803	34.919	56.082	1.00 34.29	C
ATOM 6217	OG SER A						
			26.927	35.986	56.195	1.00 34.47	0
ATOM 6219	C SER A		29.711	36.474	55.800	1.00 31.62	C
ATOM 6220	O SER A	A 413	29.980	36.268	54.679	1.00 30.19	0
ATOM 6221	N LEU A	414	29.810	37.698	56.361	1.00 32.41	N
ATOM 6223	CA LEU A	414	30.474	38.882	55.716	1.00 31.11	С
ATOM 6225	CB LEU A	414	29.458	39.830	55.119	1.00 32.13	С
ATOM 6228	CG LEU A		29.895	41.226	54.590	1.00 33.57	Ċ
ATOM 6230	CD1 LEU A		31.044	41.176	53.529	1.00 33.54	Č
ATOM 6234	CD2 LEU A		28.737	41.998	53.991	1.00 34.32	C
ATOM 6238	C LEU A		31.241	39.660	56.755	1.00 30.16	C
ATOM 6239	O LEU A		30.616	40.240	57.603	1.00 31.21	0
ATOM 6240	N ALA A	415	32.565	39.668	56.721	1.00 28.59	N
ATOM 6242	CA ALA A	415	33.347	40.421	57.709	1.00 28.16	C
ATOM 6244	CB ALA A	415	34.171	39.540	58.506	1.00 27.51	C
ATOM 6248	C ALA A	415	34.233	41.399	56.975	1.00 28.12	С
ATOM 6249	O ALA A	415	34.998	41.005	56.099	1.00 28.60	0
ATOM 6250	N VAL A		34.077	42.689	57.294	1.00 28.48	N
ATOM 6252	CA VAL A		34.865	43.768	56.701	1.00 27.99	Č
ATOM 6254	CB VAL A		33.940	44.600	55.867	1.00 28.89	C
ATOM 6256	CG1 VAL A		34.667	45.745	55.232	1.00 29.37	C
ATOM 6260	CG2 VAL A	. 416	33.294	43.709	54.828	1.00 29.55	С
ATOM 6264	C VAL A	416	35.492	44.588	57.822	1.00 27.40	C
ATOM 6265	O VAL A	416	34.788	45.252	58.514	1.00 28.63	0
ATOM 6266	N VAL A	417	36.805	44.579	57.982	1.00 26.45	N
ATOM 6268	CA VAL A	417	37.390	45.086	59.181	1.00 27.04	С
ATOM 6270	CB VAL A		37.707	43.940	60.175	1.00 27.03	Ċ
ATOM 6272	CG1 VAL A		38.177	44.508	61.435	1.00 31.02	Č
ATOM 6276	CG2 VAL A		36.616	43.085			
					60.494	1.00 25.94	C
ATOM 6280	C VAL A		38.700	45.849	58.959	1.00 27.79	С
ATOM 6281	O VAL A		39.729	45.304	58.592	1.00 28.44	0
ATOM 6282	n ser a	418	38.659	47.118	59.304	1.00 29.69	N
ATOM 6284	CA SER A	418	39.783	48.037	59.273	1.00 29.96	C
ATOM 6286	CB SER A	418	40.834	47.559	60.216	1.00 30.43	C
ATOM 6289	OG SER A	418	41.770	48.555	60.517	1.00 34.34	0
ATOM 6291	C SER A		40.320	48.213	57.889	1.00 30.06	Ċ
ATOM 6292	O SER A		41.441	48.007	57.668	1.00 30.27	Ō
ATOM 6293	N LEU A		39.473	48.581	56.934	1.00 30.95	N
ATOM 6295	CA LEU A		39.881	49.016	55.578	1.00 30.62	C
ATOM 6297	CB LEU A		38.974	48.380	54.560	1.00 29.76	C
ATOM 6300	CG LEU A		38.564	46.915	54.692	1.00 27.89	С
ATOM 6302	CD1 LEU A		37.844	46.349	53.455	1.00 26.37	C
ATOM 6306	CD2 LEU A		39.796	46.136	54.942	1.00 30.27	C
ATOM 6310	C LEU A	419	39.787	50.520	55.513	1.00 31.84	C
ATOM 6311	O LEU A	419	39.248	51.129	56.415	1.00 34.04	0
ATOM 6312	N ASN A	420	40.347	51.141	54.505	1.00 32.95	И
ATOM 6314	CA ASN A		40.409	52.602	54.421	1.00 35.62	C
ATOM 6316	CB ASN A		41.682	53.008	53.739	1.00 37.74	Č
ATOM 6319	CG ASN A		41.961	54.452	53.815	1.00 40.33	C
ATOM 6320	OD1 ASN A		41.713	55.072	54.796	1.00 41.29	0
ATOM 6321	ND2 ASN A		42.543	54.991	52.774	1.00 42.87	N
ATOM 6324	C ASN A	. 420	39.322	53.016	53.519	1.00 38.01	C
ATOM 6325	O ASN A	420	39.319	54.112	53.010	1.00 41.16	0
ATOM 6326	N ILE A	421	38.383	52.103	53.301	1.00 37.63	N
ATOM 6328	CA ILE A		37.280	52.252	52.393	1.00 38.22	C
ATOM 6330	CB ILE A		36.767	50.873	52.179	1.00 36.26	Č
ATOM 6332	CG1 ILE A		36.784	50.662	50.724	1.00 40.93	C
ATOM 6332	CD1 ILE A						
			36.644	49.237	50.423	1.00 45.47	C
ATOM 6339	CG2 ILE A		35.404	50.467	52.732	1.00 34.04	C
ATOM 6343	C ILE A	421	36.263	53.290	52.797	1.00 40.58	С

7 TO M	6344	0	TTE	71	421	36.203	53.706	53.954	1.00 42.88	0
	6345	N			422	35.511	53.755	51.814	1.00 42.92	N
ATOM	6347	$^{\mathrm{CA}}$	THR	А	422	34.541	54.868	51.949	1.00 44.98	С
MOTA	6349	CB	THR	Α	422	34.870	55.912	50.914	1.00 47.73	C
ATOM	6351	OG1	THR	Α	422	36.200	56.430	51.181	1.00 49.14	0
	6353	CG2	THR			33.950	57.054	51.018	1.00 49.95	С
							54.418		1.00 44.41	C
	6357	С			422	33.106		51.763		
ATOM	6358	0	THR	A	422	32.230	54.898	52.433	1.00 46.45	0
MOTA	6359	N	SER	Α	423	32.878	53.462	50.889	1.00 42.64	N
ATOM	6361	CA	SER	Α	423	31.626	52.762	50.831	1.00 41.79	C
	6363	CB			423	30.874	53.300	49.666	1.00 44.68	С
		OG						48.490		Ö
	6366				423	31.655	53.146		1.00 46.25	
AT'OM	6368	C			423	31.838	51.294	50.560	1.00 38.94	C
MOTA	6369	0	SER	А	423	32.862	50.907	50.044	1.00 37.59	0
ATOM	6370	N	LEU	Α	424	30.846	50.468	50.858	1.00 38.17	N
ATOM	6372	CA	LEU	Α	424	31.038	49.034	50.632	1.00 36.68	C
	6374	СВ	LEU			29.949	48.233	51.394	1.00 35.68	C
	6377	CG	LEU			30.177	48.127	52.916	1.00 36.14	C
ATOM	6379	CD1	LEU	А	424	28.913	47.658	53.776	1.00 34.01	С
ATOM	6383	CD2	LEU	Α	424	31.441	47.302	53.250	1.00 33.86	С
MOTA	6387	С	LEU	Α	424	31.090	48.724	49.078	1.00 36.95	С
	6388	0	LEU			31.909	48.010	48.555	1.00 33.92	0
	6389		GLY			30.182	49.314	48.364	1.00 38.75	N
		N								
	6391	CA	GLY			30.155	49.084	46.969	1.00 40.99	С
MOTA	6394	С	GLY	Α	425	29.443	47.814	46.622	1.00 41.20	C
MOTA	6395	0	GLY	Α	425	29.472	47.443	45.460	1.00 44.17	0
ATOM	6396	N	LEU	Α	426	28.805	47.141	47.566	1.00 40.36	N
	6398	CA			426	28.240	45.842	47.258	1.00 39.92	C
	6400	CB	LEU			28.082	45.026	48.527	1.00 37.76	C
ATOM	6403	CG	LEU		and the second second	29.426	44.744	49.170	1.00 36.86	С
ATOM	6405	CD1	LEU	А	426	29.176	43.892	50.403	1.00 38.68	С
ATOM	6409	CD2	LEU	Α	426	30.381	44.023	48.252	1.00 35.23	C
МОТА	6413	С	TEU	Α	426	26.932	46.001	46.557	1.00 42.18	С
	6414	0	LEU			25.894	45.526	47.046	1.00 44.29	0
	_									
	6415	N	ARG			26.948	46.648	45.405	1.00 43.67	N
ATOM	6417	CA	ARG	Α	427	25.710	47.033	44.753	1.00 46.27	С
ATOM	6419	CB	ARG	Α	427	25.952	48.098	43.700	1.00 48.95	C
MOTA	6422	CG	ARG	Α	427	26.781	47.687	42.500	1.00 51.08	С
	6425	CD	ARG			26.942	48.830	41.462	1.00 53.68	С
	6428	NE	ARG			27.600	49.930	42.126	1.00 52.90	N
	6430	CZ	ARG			28.907	49.974	42.333	1.00 54.16	C
ATOM	6431	NHl	ARG	A	427	29.687	49.026	41.855	1.00 56.67	N
MOTA	6434	NH2	ARG	Α	427	29.469	50.978	42.973	1.00 53.42	N
ATOM	6437	С	ARG	Α	427	24.921	45.923	44.137	1.00 46.88	C
	6438	0	ARG			23.864	46.167	43.683	1.00 49.33	0
	6439	N	SER			25.423	44.709	44.079	1.00 45.62	N
	6441	CA	SER			24.656	43.644	43.465	1.00 46.68	С
ATOM	6443	CB	SER	Α	428	25.514	42.826	42.506	1.00 45.99	C
ATOM	6446	OG	SER	Α	428	25.834	43.593	41.362	1.00 47.96	0
ATOM	6448	С	SER	Α	428	24.148	42.720	44.486	1.00 45.95	C
	6449	0	SER			23.366	41.806	44.178	1.00 48.53	0
							42.903	45.703	1.00 44.50	N
	6450	N	LEU			24.620				
	6452	CA	LEU			24.329	41.963	46.753	1.00 43.25	C
ATOM	6454	CB	LEU			25.197	42.215	47.923	1.00 40.85	C
ATOM	6457	CG	LEU	Α	429	25.039	41.129	48.966	1.00 40.60	C
АТОМ	6459	CD1	LEU	А	429	25.400	39.734	48.410	1.00 40.92	C
	6463		LEU			25.895	41.522	50.121	1.00 38.94	Ċ
	6467	С	LEU			22.889	42.116	47.185	1.00 45.57	C
	6468	0	LEU			22.516	43.074	47.852	1.00 46.09	0
MOTA	6469	N	LYS	A	430	22.079	41.148	46.801	1.00 46.89	N
ATOM	6471	CA	LYS	Α	430	20.729	41.149	47.203	1.00 49.09	С
	6473	CB	LYS			19.848	40.867	46.020	1.00 52.17	Ċ
		CG	LYS							C
	6476					20.075	41.767	44.775	1.00 56.42	
	6479	CD	LYS			20.040	43.323	45.059	1.00 58.97	C
ATOM	6482	CE	LYS	Α	430	19.311	44.138	43.898	1.00 64.18	C
ATOM	6485	ΝZ	LYS	Α	430	18.517	45.353	44.422	1.00 67.30	N
	6489	C	LYS			20.482	40.120	48.287	1.00 48.70	С
	6490	0	LYS			19.396	40.095	48.817	1.00 52.84	Ö
- 11 011	0 1 7 0	J		-7	100	27.550	10.000	10.011		-

ATOM	6491	N	GLU	Α	431	21.402	39.237	48.636	1.00	45.66		N
	6493	CA			431	20.996	38.242	49.591		44.87		C
						20.319						
	6495	CB			431		37.086	48.889		46.51		C
	6498	CG			431	20.122	35.923	49.821		47.21		C
ATOM	6501	CD	GLU	A	431	19.206	34.813	49.314	1.00	54.73		C
MOTA	6502	OE1	${ t GLU}$	Α	431	18.587	34.845	48.198	1.00	57.66		0
MOTA	6503	OE2	GLU	Α	431	19.061	33.865	50.108	1.00	58.94		0
ATOM	6504	С	GLU	Α	431	22.172	37.745	50.312	1.00	42.74		C
	6505	0			431	23.201	37.454	49.714		40.52		0
	6506	И			432	22.020	37.676	51.635		43.15		N
	6508											
		CA				22.953	36.946	52.541		40.67		C
	6510	CB			432	23.656	37.901	53.551		38.41		С
	6512		ILE			24.459	38.988	52.813	1.00	36.41		C
ATOM	6515	CD1	ILE	Ά	432	24.835	40.134	53.667	1.00	34.20		C
ATOM	6519	CG2	ILE	Α	432	24.583	37.096	54.405	1.00	37.20		C
MOTA	6523	С	ILE	Α	432	22.159	35.884	53.298	1.00	42.12		C
ATOM	6524	0	ILE	Α	432	21.589	36.182	54.330	1.00	43.01		0
	6525	N			433	22.116	34.665	52.767		43.12		N
	6527	CA			433	21.267	33.580	53.285		45.85		C
	6529											
		CB			433	21.474	32.275	52.493		46.97		C
	6532	OG			433	21.513	32.412	51.072		47.67		0
	6534	С			433	21.414	33.251	54.795		45.97		С
	6535	0	SER	Α	433	20.426	33.093	55.543	1.00	49.16		0
MOTA	6536	N	ASP	Α	434	22.636	33.142	55.246	1.00	43.68		N
ATOM	6538	CA	ASP	Α	434	22.897	32.829	56.616	1.00	44.35		С
ATOM	6540	CB	ASP	Α	434	23.092	31.311	56.710	1.00	46.18		С
	6543	CG	ASP			22.775	30.720	58.098		49.52		C
	6544		ASP			22.139	31.350	58.999	1.00			0
	6545		ASP			23.167						
							29.561	58.374	1.00			0
	6546	C	ASP			24.121	33.598	57.103	1.00			C
	6547	0	ASP			24.857	34.175	56.338	1.00			0
MOTA	6548	N	GLY	Α	435	24.301	33.626	58.413	1.00	43.10		N
ATOM	6550	CA	\mathtt{GLY}	Α	435	25.468	34.230	59.044	1.00	41.52		C
ATOM	6553	C	GLY	A	435	25.300	35.685	59.493	1.00	40.59		C
MOTA	6554	0	GLY	Α	435	24.326	36.283	59.093	1.00	42.87		0
ATOM	6555	N	ASP			26.244	36.248	60.256	1.00			N
	6557	CA	ASP			26.162	37.608	60.633	1.00			C
	6559	CB	ASP			26.451	37.759	62.063	1.00			C
	6562											
		CG	ASP			25.542	36.897	62.949	1.00			C
	6563		ASP			24.475	36.346	62.465	1.00			0
	6564		ASP			25.849	36.744	64.188	1.00	48.71		0
	6565	С	ASP	Α	436	27.101	38.463	59.884	1.00	35.36		C
MOTA	6566	0	ASP	A	436	28.171	38.045	59.505	1.00	34.46		0
ATOM	6567	N	VAL	Α	437	26.675	39.699	59.666	1.00	34.91		N
ATOM	6569	CA	VAL	Α	437	27.539	40.698	59.138	1.00	32.89		C
ATOM	6571	CB	VAL			26.807	41.670	58.331	1.00			Ċ
	6573		VAL			27.752		57.809	1.00			Č
	6577		VAL			26.255	40.973	57.202	1.00			C
	6581	C	VAL			28.177						
							41.428	60.248	1.00			C
	6582	0	VAL			27.550	41.789	61.196	1.00			0
	6583	N	ILE			29.465	41.596	60.128	1.00			N
MOTA	6585	CA	${ t ILE}$	Α	438	30.196	42.496	60.980	1.00	32.05		C
MOTA	6587	CB	ILE	А	438	31.067	41.725	62.017	1.00	31.78		C
ATOM	6589	CG1	ILE	Α	438	31.917	42.722	62.782	1.00	33.81		С
ATOM	6592	CD1	ILE	A	438	31.980	42.501	64.214	1.00	34.56		C
	6596		ILE			31.869	40.711	61.404	1.00			C
	6600	C	ILE			31.049	43.403	60.138	1.00			C
MOTA			ILE				42.980					
		O N				31.771		59.286	1.00			0
MOTA		N	ILE			30.969	44.668	60.434	1.00			N
ATOM		CA	ILE			31.661	45.697	59.693	1.00			C
ATOM		CB	ILE			30.627	46.403	58.860	1.00	33.32		C
ATOM	6608		ILE			30.097	45.368	57.903	1.00	33.68		С
ATOM	6611	CD1	ILE	Α	439	29.445	45.900	56.843	1.00	37.03		С
ATOM	6615		ILE			31.173	47.672	58.251	1.00			С
ATOM		С	ILE			32.188	46.642	60.672	1.00			c
ATOM		0	ILE			31.404	47.452	61.174	1.00			0
ATOM		N	SER			33.472	46.512	60.990				N
ATOM		CA							1.00			
MI OH	0023	CA	SER	М	44U	34.064	47.352	61.993	1.00	32.15	'	С

ATOM 6625	СВ	SER	A	440	34.033	46.654	63.346	1.00	34.08	С
ATOM 6628	OG	SER	A	440	35.219	46.099	63.813		30.62	0
ATOM 6630	С	SER	A	440	35.423	47.965	61.710	1.00	33.20	С
ATOM 6631	0	SER	Α	440	36.301	47.431	61.050	1.00	31.65	0
ATOM 6632	N	GLY	A	441	35.564	49.154	62.243	1.00	34.51	N
ATOM 6634	CA	GLY	A	441	36.833	49.803	62.243	1.00	35.00	C
ATOM 6637	С	GLY	Α	441	37.257	50.356	60.936	1.00	34.41	С
ATOM 6638	0	GLY	Α	441	38.416	50.475	60.699	1.00	36.85	0
ATOM 6639	N	ASN	A	442	36.327	50.764	60.121	1.00	34.47	N
ATOM 6641	CA	ASN			36.633	51.433	58.902	1.00	34.18	C
ATOM 6643	CB	ASN			35.722	50.813	57.889	1.00	32.80	C
ATOM 6646	CG	ASN	Α	442	35.795	49.277	57.918	1.00	31.45	С
ATOM 6647	OD1	ASN	Α	442	36.767	48.706	57.513	1.00	31.51	0
ATOM 6648	ND2	ASN	A	442	34.759	48.620	58.385	1.00	33.37	N
ATOM 6651	С	ASN	Α	442	36.483	52.975	59.097	1.00	36.49	С
ATOM 6652	0	ASN	Α	442	35.399	53.472	58.871	1.00	37.28	0
ATOM 6653	N	LYS	Α	443	37.537	53.694	59.570	1.00	37.27	N
ATOM 6655	CA	LYS	A	443	37.443	55.111	59.920	1.00	40.56	С
ATOM 6657	CB	LYS	Α	443	38.759	55.895	59.850	1.00	42.83	C
ATOM 6660	CG	LYS	A	443	39.988	55.442	60.495	1.00	45.94	C
ATOM 6663	CD	LYS	Α	443	41.237	56.329	60.166	1.00	47.16	C
ATOM 6666	CE	LYS	A	443	42.546	55.495	60.405	1.00	49.15	C
ATOM 6669	NZ	LYS	A	443	43.707	55.709	59.389	1.00	50.56	N
ATOM 6673	C	LYS	Α	443	36.582	55.947	58.945	1.00	42.61	C
ATOM 6674	0	LYS	Α	443	35.994	56.946	59.344	1.00	44.63	0
ATOM 6675	N	ASN	A	444	36.652	55.608	57.658	1.00	42.59	N
ATOM 6677	CA	ASN	Α	444	36.171	56.418	56.545	1.00	44.01	C
ATOM 6679	CB	ASN	Α	444	37.294	56.464	55.497	1.00	44.13	C
ATOM 6682	CG	ASN	Α	444	38.405	57.361	55.910	1.00	46.10	C
ATOM 6683	OD1	ASN	Α	444	38.183	58.301	56.639	1.00	50.68	0
ATOM 6684	ND2	ASN	Α	444	39.594	57.100	55.461	1.00	47.38	N
ATOM 6687	C	ASN	А	444	34.921	55.847	55.902	1.00	43.68	C
ATOM 6688	0	ASN			34.542	56.270	54.825		45.84	0
ATOM 6689	N	LEU			34.283	54.866	56.539		42.24	N
ATOM 6691	CA	LEU			33.301	54.082	55.849		41.55	С
ATOM 6693	CB	LEU			33.208	52.701	56.401		38.97	С
ATOM 6696	CG	LEU			32.117	51.924	55.680		39.43	С
ATOM 6698		LEU			32.454	51.904	54.221		41.08	С
ATOM 6702		LEU			31.954	50.485	56.169		37.35	C
ATOM 6706	C	LEU			31.995	54.746	56.056		44.65	C
ATOM 6707	0	LEU			31.635	55.160	57.193		46.34	0
ATOM 6708	N	CYS			31.267	54.879	54.966		45.65	N
ATOM 6710	CA	CYS			29.956	55.494	55.049		47.96	C
ATOM 6712	CB	CYS			29.980	56.842	54.346		51.65	C
ATOM 6715 ATOM 6716	SG C	CYS			30.690	58.223	55.323 54.454		56.94	S C
					28.930	54.580			45.78	
ATOM 6717 ATOM 6718	O N	CYS TYR			29.247 27.698	53.516 54.972	53.948 54.622		45.34 46.60	O N
ATOM 6720	CA	TYR			26.536	54.438	53.926		46.93	C
ATOM 6722	CB	TYR			26.727	54.312	52.366		46.78	C
ATOM 6725	CG	TYR			27.370	55.536	51.702		48.48	C
ATOM 6726		TYR			28.763	55.661	51.604		48.29	C
ATOM 6728		TYR			29.359	56.796	51.020		49.65	Ċ
ATOM 6730	CZ	TYR			28.561	57.823	50.584		53.33	Č
ATOM 6731	OH	TYR			29.156	58.934	50.022		56.47	Ō
ATOM 6733		TYR			27.188	57.718	50.684		52.55	C
ATOM 6735		TYR			26.603	56.594	51.237		50.12	C
ATOM 6737	C	TYR			26.006	53.182	54.579		45.12	C
ATOM 6738	0	TYR			24.828	52.906	54.450		46.05	0
ATOM 6739	N	ALA			26.825	52.441	55.307		42.46	N
ATOM 6741	CA	ALA			26.412	51.097	55.672		42.12	C
ATOM 6743	СВ	ALA			27.486	50.466	56.386		40.08	С
ATOM 6747	С	ALA			25.164	51.065	56.550		45.51	С
ATOM 6748	0	ALA			24.377	50.118	56.546		46.84	0
ATOM 6749	N	ASN			25.042	52.116	57.349		48.30	N
ATOM 6751	CA	ASN			24.032	52.298	58.385		50.40	С
ATOM 6753	CB	ASN	Α	449	24.550	53.507	59.267	1.00	51.87	C
ATOM 6756	CG	ASN	A	449	24.734	54.895	58.395		57.64	С

ATOM	6757	OD1	ASN	Α	449	25.688	55.006	57.531	1.00 53.24	0
ATOM	6758		ASN			23.747	55.920	58.585	1.00 59.18	N
	6761	C			449	22.672	52.509	57.647	1.00 52.26	C
	6762	Ō			449	21.637	52.128	58.077	1.00 53.29	Ö
	6763	N			450	22.728	53.091	56.469	1.00 53.13	N
	6765	CA			450	21.597	53.268	55.534	1.00 54.99	C
	6767	CB			450	22.266	53.742	54.252	1.00 54.62	C
	6769		THR			22.367	55.152	54.295	1.00 55.61	0
	6771		THR			21.443	53.564	53.124	1.00 57.50	C
	6775	C			450	20.713	52.104	55.065	1.00 55.13	C
	6776	0			450	19.534	52.252	54.725	1.00 57.64	0
	6777	N			451	21.340	50.971	54.847	1.00 53.09	N
	6779	CA			451	20.639	49.838	54.231	1.00 52.81	C
	6781	CB			451	21.672	48.959	53.650	1.00 48.99	c
	6783		ILE			21.964	49.458	52.272	1.00 48.98	C
	6786		ILE			23.287	48.919	51.907	1.00 40.98	C
	6790		ILE			21.238	47.512	53.660	1.00 48.80	C
	6794	C			451	19.855	49.041	55.251	1.00 53.28	C
	6795	Ö			451	20.291	48.882	56.403	1.00 53.75	0
	6796	И			452	18.729	48.501	54.859	1.00 54.61	N
	6798	CA			452	18.075	47.564	55.753	1.00 54.85	C
	6800	CB			452	16.582	47.583	55.595	1.00 58.78	C
	6803	CG			452	15.898	46.688	56.573	1.00 60.06	C
ATOM			ASN			16.477	46.247	57.535	1.00 60.16	0
	6805		ASN			14.630	46.447	56.348	1.00 66.13	И
	6808	C			452	18.584	46.161	55.514	1.00 51.88	C
	6809	0			452	18.079	45.429	54.688	1.00 51.93	0
	6810	N			453	19.574	45.788	56.289	1.00 49.02	И
ATOM		CA			453	20.200	44.509	56.111	1.00 47.00	C
ATOM		CB			453	21.380	44.370	57.080	1.00 43.94	Č
ATOM		CG			453	22.510	45.291	56.788	1.00 42.79	Ċ
ATOM			TRP			22.646	46.594	57.203	1.00 43.19	c
ATOM			TRP			23.832	47.126	56.749	1.00 42.40	И
ATOM			TRP			24.515	46.164	56.055	1.00 41.54	C
MOTA			TRP			23.706	44.986	56.055	1.00 40.84	Ċ
ATOM			TRP			24.181	43.846	55.397	1.00 37.49	C
ATOM			TRP			25.422	43.910	54.728	1.00 36.87	C
MOTA			TRP			26.216	45.085	54.767	1.00 37.26	Č
ATOM			TRP			25.771	46.226	55.419	1.00 40.29	C
ATOM		C	TRP			19.210	43.347	56.304	1.00 48.34	č
ATOM		0	TRP			19.523	42.225	55.960	1.00 48.61	Ö
ATOM		N	ALA			18.049	43.569	56.872	1.00 50.12	N
ATOM		CA	ALA			17.163	42.440	57.046	1.00 52.09	C
ATOM	6838	СВ	ALA	Α	454	16.100	42.742	58.175	1.00 55.94	č
ATOM	6842	C	ALA			16.497	41.955	55.731	1.00 52.76	Č
ATOM	6843	0	ALA	Α	454	16.033	40.830	55.669	1.00 53.28	0
MOTA	6844	N	ALA	А	455	16.438	42.796	54.699	1.00 53.04	N
ATOM	6846	CA	ALA	Α	455	15.958	42.371	53.388	1.00 54.61	С
ATOM	6848	CB	ALA			15.611	43.600	52.415	1.00 55.56	C
ATOM	6852	C	ALA	A	455	17.019	41.447	52.780	1.00 52.15	С
ATOM	6853	0	ALA	A	455	16.713	40.564	51.986	1.00 53.84	0
ATOM	6854	N	LEU	А	456	18.278	41.584	53.144	1.00 48.88	N
ATOM	6856	CA	LEU	Α	456	19.207	40.624	52.575	1.00 47.66	C
ATOM	6858	CB	LEU	Α	456	20.629	41.111	52.554	1.00 44.76	C
ATOM	6861	CG	LEU	Α	456	20.822	42.604	52.299	1.00 47.13	C
ATOM	6863	CD1	LEU	А	456	22.273	42.896	52.676	1.00 47.80	C
ATOM	6867	CD2	LEU	Α	456	20.538	43.052	50.860	1.00 46.95	C
ATOM	6871	С	LEU	A	456	19.131	39.306	53.285	1.00 47.43	С
ATOM	6872	0	LEU	Α	456	19.433	38.295	52.722	1.00 48.81	0
ATOM	6873	N	PHE	A	457	18.713	39.299	54.520	1.00 48.14	N
ATOM	6875	CA	PHE	A	457	18.752	38.096	55.293	1.00 48.22	C
ATOM	6877	CB	PHE	A	457	18.711	38.449	56.766	1.00 48.21	С
MOTA		CG	PHE	A	457	19.963	39.062	57.277	1.00 44.36	С
ATOM	6881	CD1	PHE	A	457	19.934	39.820	58.425	1.00 44.86	C
ATOM	6883	CE1	PHE			21.026	40.346	58.984	1.00 42.67	C
MOTA	6885	CZ	PHE	A	457	22.226	40.151	58.400	1.00 43.38	C
MOTA		CE2	PHE	A	457	22.294	39.405	57.247	1.00 43.86	C
MOTA	6889	CD2	PHE	A	457	21.148	38.843	56.690	1.00 42.41	C

17.647 37.119 54.932 1.00 51.40 ATOM 6891 C PHE A 457 ATOM 6892 PHE A 457 16.662 37.500 54.357 1.00 52.54 ATOM 6893 GLY A 458 17.898 35.854 55.274 1.00 52.35 N N GLY A 458 ATOM 6895 17.023 34.744 55.030 1.00 56.05 CA 17.023 34.744 55.035 1.00 58.52 16.661 33.924 56.238 1.00 58.52 ATOM 6898 GLY A 458 C 15.591 33.315 56.320 1.00 63.06 ATOM 6899 Ο GLY A 458 0 THR A 459 ATOM 6900 N 17.597 33.823 57.145 1.00 57.90 17.361 33.198 58.447 1.00 60.11 ATOM 6902 THR A 459 CA С 18.698 32.524 59.028 1.00 58.33 19.443 31.758 58.027 1.00 56.59 ATOM 6904 THR A 459 С CB ATOM 6906 OG1 THR A 459 0 18.397 31.515 60.156 1.00 61.86 ATOM 6908 CG2 THR A 459 С ATOM 6912 THR A 459 16.973 34.339 59.362 1.00 60.43 С 17.504 35.455 59.293 1.00 58.76 16.055 34.063 60.248 1.00 63.77 15.832 34.971 61.348 1.00 64.47 ATOM 6913 0 THR A 459 0 ATOM 6914 SER A 460 N Ν SER A 460 ATOM 6916 CA С ATOM 6918 CB SER A 460 14.427 34.808 61.931 1.00 69.15 C OG SER A 460 14.550 34.108 63.143 1.00 71.63 ATOM 6921 0 16.934 34.647 62.384 1.00 62.22 17.590 33.555 62.356 1.00 61.49 ATOM 6923 SER A 460 C C ATOM 6924 SER A 460 0 0 ATOM 6925 GLY A 461 17.164 35.602 63.277 1.00 60.59 И N 18.316 35.494 64.123 1.00 57.63 ATOM 6927 CA GLY A 461 C ATOM 6930 С GLY A 461 19.585 35.989 63.511 1.00 52.41 C ATOM 6931 GLY A 461 20.446 36.242 64.286 1.00 52.50 Ω 0 ATOM 6932 Ν GLN A 462 19.741 36.137 62.195 1.00 49.52 Ν 20.925 36.822 61.668 1.00 45.64 ATOM 6934 CA GLN A 462 C ATOM 6936 CB GLN A 462 20.952 36.897 60.163 1.00 43.36 С ATOM 6939 CG GLN A 462 21.317 35.605 59.465 1.00 43.36 С 21.144 35.662 57.939 1.00 42.21 20.022 35.477 57.420 1.00 43.94 ATOM 6942 CD GLN A 462 С ATOM 6943 OE1 GLN A 462 0 22.221 35.915 57.237 1.00 38.31 NE2 GLN A 462 ATOM 6944 N ATOM 6947 C GLN A 462 21.059 38.245 62.227 1.00 46.14 C ATOM 6948 GLN A 462 20.063 38.974 62.410 1.00 47.92 0 0 22.288 38.625 62.523 1.00 44.23 22.533 39.895 63.147 1.00 45.46 ATOM 6949 N LYS A 463 Ν ATOM 6951 CA LYS A 463 C 23.017 39.668 64.596 1.00 46.79 ATOM 6953 CB LYS A 463 С ATOM 6956 CG LYS A 463 21.984 38.954 65.430 1.00 55.05 C ATOM 6959 CD LYS A 463 22.139 39.020 67.026 1.00 59.62 C 20.716 38.916 67.717 1.00 64.36 20.821 38.672 69.237 1.00 69.48 ATOM 6962 CE LYS A 463 С ATOM 6965 NZ LYS A 463 N 23.603 40.691 62.389 1.00 42.96 ATOM 6969 C LYS A 463 С ATOM 6970 O LYS A 463 24.382 40.166 61.581 1.00 39.97 0 23.730 41.932 62.818 1.00 43.35 24.580 42.878 62.188 1.00 42.23 23.583 43.748 61.509 1.00 44.72 ATOM 6971 THR A 464 N N ATOM 6973 CA THR A 464 С ATOM 6975 CB THR A 464 С 23.198 43.095 60.276 1.00 46.76 ATOM 6977 OG1 THR A 464 0 ATOM 6979 CG2 THR A 464 24.182 45.089 61.116 1.00 46.18 C 25.331 43.693 63.198 1.00 41.03 24.720 44.166 64.099 1.00 43.87 ATOM 6983 THR A 464 С C ATOM 6984 0 THR A 464 0 26.616 43.918 63.032 1.00 38.29 ATOM 6985 LYS A 465 И N ATOM 6987 CA LYS A 465 27.350 44.883 63.862 1.00 37.96 C ATOM 6989 CB LYS A 465 28.365 44.234 64.770 1.00 38.00 C 27.843 43.601 66.020 1.00 39.95 29.041 42.928 66.733 1.00 39.30 28.550 41.917 67.693 1.00 43.12 ATOM 6992 CG LYS A 465 C ATOM 6995 CD LYS A 465 ATOM 6998 LYS A 465 CE С ATOM 7001 NZ 29.446 41.823 68.859 1.00 47.34 LYS A 465 N 28.107 45.855 62.997 1.00 35.71 ATOM 7005 LYS A 465 C С 29.066 45.520 62.377 1.00 34.33 27.686 47.083 63.039 1.00 36.59 ATOM 7006 0 LYS A 465 0 ATOM 7007 ILE A 466 N N 28.230 48.113 62.287 1.00 36.36 ATOM 7009 CA ILE A 466 С ATOM 7011 CB ILE A 466 27.149 48.658 61.458 1.00 37.62 C ATOM 7013 CG1 ILE A 466 26.638 47.521 60.575 1.00 39.37 ATOM 7016 CD1 ILE A 466 25.425 47.855 59.830 1.00 43.42 C
 27.645
 49.806
 60.602
 1.00 36.38

 28.660
 49.060
 63.328
 1.00 39.00
 ATOM 7020 CG2 ILE A 466 С ATOM 7024 C ILE A 466 С ATOM 7025 ILE A 466 27.884 49.879 63.803 1.00 42.79 0 0 ATOM 7026 N ILE A 467 29.957 49.024 63.565 1.00 39.11 30.596 49.432 64.779 1.00 40.37 65.331 1.00 40.16 ATOM 7028 CA ILE A 467 C 31.219 48.212 ATOM 7030 ILE A 467 CB

ATOM 7032	CG1	ILE	Ά	467	30.370	47.332	66.163	1.00	42.73	С
ATOM 7035		ILE			31.377	45.982	66.241		40.48	Ċ
ATOM 7039		ILE			32.262	48.549	66.279		45.19	Ċ
ATOM 7043	C	ILE			31.840	50.203	64.366		39.14	C
ATOM 7043	Ö	ILE			32.618	49.668	63.547		36.89	0
ATOM 7044	N	SER			32.116	51.332	65.040		40.22	N
ATOM 7043	CA	SER			33.370	52.094	64.911		39.83	C
ATOM 7047	CB	SER			34.462	51.450			40.10	
							65.689			C
ATOM 7052	OG	SER			35.683	52.125	65.536		44.57	0
ATOM 7054	C	SER			33.775	52.258	63.472		38.05	C
ATOM 7055	0	SER			34.825	51.854	63.028		35.32	0
ATOM 7056	N	ASN			32.855	52.838	62.716		39.19	N
ATOM 7058	CA	ASN			33.116	53.297	61.394		38.06	C
ATOM 7060	СВ	ASN			32.120	52.660	60.473		37.00	С
ATOM 7063	CG	ASN			32.229	51.158	60.463		32.67	C
ATOM 7064		ASN			33.227	50.572	60.068		31.21	0
ATOM 7065		ASN			31.183	50.536	60.930		33.32	N
ATOM 7068	C	ASN			33.072	54.801	61.447		40.14	C
ATOM 7069	0	ASN			33.215	55.332	62.487		41.27	0
ATOM 7070	И	ARG			32.989	55.479	60.332	1.00	42.08	N
ATOM 7072	CA	ARG	Α	470	32.665	56.891	60.330	1.00	46.67	C
ATOM 7074	CB	ARG	Α	470	32.810	57.409	58.920	1.00	47.34	C
ATOM 7077	CG	ARG	Α	470	32.742	58.880	58.850	1.00	52.09	C
ATOM 7080	CD	ARG	Α	470	34.050	59.464	58.571	1.00	55.79	C
ATOM 7083	ΝE	ARG	Α	470	33.944	60.651	57.785	1.00	61.59	N
ATOM 7085	CZ	ARG	Α	470	34.946	61.179	57.104	1.00	64.65	C
ATOM 7086	NH1	ARG	Α	470	36.169	60.602	57.129	1.00	61.27	N
ATOM 7089	NH2	ARG	A.	470	34.710	62.300	56.374	1.00	67.54	N
ATOM 7092	C	ARG	A	470	31.205	57.060	60.710	1.00	49.51	C
ATOM 7093	0	ARG	A	470	30.334	56.385	60.116	1.00	51.46	0
ATOM 7094	N	GLY	A	471	30.864	57.940	61.623	1.00	52.32	N
ATOM 7096	CA	GLY	Α	471	29.444	58.051	61.999	1.00	54.41	С
ATOM 7099	С	GLY	Α	471	28.409	58.690	61.044	1.00	56.89	С
ATOM 7100	0	GLY	Α	471	28.771	59.570	60.204	1.00	58.19	0
ATOM 7101	И	ALA	Α	472	27.117	58.276	61.201	1.00	57.50	N
ATOM 7103	CA	ALA	Α	472	25.991	58.836	60.402	1.00	59.48	С
ATOM 7105	CB	ALA			24.529	58.422	60.926		59.82	С
ATOM 7109	С	ALA			26.180	60.340	60.361		62.54	C
ATOM 7110	0	ALA			25.935	60.936	59.337		64.71	0
ATOM 7111	N	ASN			26.708	60.910	61.448		63.09	N
ATOM 7113	CA	ASN			26.888	62.359	61.610		66.39	C
ATOM 7115	CB	ASN			27.229	62.615	63.117		67.84	C
ATOM 7118	CG	ASN			27.465	64.101	63.481		71.47	Č
ATOM 7119		ASN			28.533	64.653	63.201		72.56	0
ATOM 7120		ASN			26.517	64.702	64.181		70.68	N
ATOM 7123	C	ASN			27.912	62.992	60.665		66.37	C
ATOM 7124	Ō	ASN			27.616	63.960	60.011		68.02	Ō
ATOM 7125	N	ALA			29.133	62.452	60.621		65.12	N
ATOM 7127	CA	ALA			30.220	63.060	59.830		65.88	C
ATOM 7129	CB	ALA			31.554	62.342	60.019		62.40	Č
ATOM 7133	C	ALA			29.778	62.956	58.411		66.42	Ċ
ATOM 7134	Ö	ALA			29.829	63.943	57.670		69.09	Ö
ATOM 7135	N	CYS			29.294	61.756	58.068		64.28	N
ATOM 7133	CA	CYS			28.846	61.446	56.715		64.60	C
ATOM 7139	СВ	CYS .			28.276	60.046	56.655		61.39	C
ATOM 7142	SG	CYS			29.609	58.840	57.005		61.67	S
ATOM 7142	C	CYS			27.823	62.441	56.247		68.38	C
ATOM 7143	0	CYS			27.825	62.918			70.86	0
	N	ALA					55.133			N
ATOM 7145	CA				26.839 25.739	62.773	57.096		69.69	C
ATOM 7147		ALA .				63.659	56.708		73.44	
ATOM 7149	CB	ALA .			24.512	63.632	57.733		74.87	C
ATOM 7153	C	ALA .			26.315	65.042	56.588		76.96	C
ATOM 7154	0	ALA			25.922	65.815	55.746		80.28	0
ATOM 7155	N	ALA			27.284	65.326	57.441		76.83	N
ATOM 7157	CA	ALA .			27.946	66.610	57.480		79.93	C
ATOM 7159	CB	ALA .			28.692	66.746	58.841		79.17	C
ATOM 7163	C	ALA .			28.883	66.854	56.259		80.17	C
ATOM 7164	0	ALA .	А	477	29.420	67.924	56.119	T.00	83.71	0

T III C I I	7165	2.7	TO TAKE	~	470	00 001	65 007	F.F. 2.6B	1 00		
ATOM	7165	N	THR	А	478	29.061	65.887	55.367	1.00	77.44	N
ATOM	7167	CA	THR	A	478	29.857	66.103	54.148	1.00	78.09	C
	7169	CB	THE	A	478	31.207	65.328	54.184	T.00	74.61	C
ATOM	7171	OG1	THR	Α	478	31.657	65.181	55.522	1.00	72.75	0
V III O IV	7173		THR								
						32.284	66.181	53.526		77.14	C
ATOM	7177	С	THR	Α	478	29.159	65.664	52.870	1.00	77.93	C
MOTA	7178	0	THD	Δ	478	29.821	65.477	51.834	1 00	78.45	0
MOTA	7179	N	GLY	Α	479	27.857	65.436	52.920	1.00	77.46	И
MOTA	7181	CA	GT.Y	Ζ	479	27.162	64.913	51.748	1 00	77.03	C
AT OM	7184	С	GTA	А	479	27.510	63.493	51.309	1.00	71.99	C
ATOM	7185	0	GLY	Α	479	27.172	63.096	50.232	1.00	71.57	0
MOTO	7186	N	CIN	7	480	28.197	62.715	52.127			
										68.57	N
ATOM	7188	CA	GLN	А	480	28.453	61.317	51.786	1.00	64.64	C
MOTA	7190	CB	GLN	Δ	480	29.784	60.854	52.334	1 00	61.62	С
	7193										
		CG	GPIA	А	480	30.980	61.814	52.059	1.00	64.83	С
ATOM	7196	CD	GLN	Α	480	32.316	61.198	52.592	1.00	64.82	С
א∩יייג	7197	OF1	GLN	7\	180	32.487	61.054	53.819		64.21	0
AT'OM	7198	NE2	GLN	Α	480	33.224	60.787	51.671	1.00	62.23	N
ATOM	7201	С	GLN	А	480	27.227	60.525	52.300	1 00	63.37	С
ATOM	7202	0	GPIA	A	480	27.260	59.788	53.314	1.00	61.12	0
ATOM	7203	N	VAL	Α	481	26.162	60.692	51.514	1.00	64.68	N
Δ·Tr∩M	7205	CA	377\ T.	7\	481	24.809	60.368	51.872		65.06	C
ATOM	7207	CB	VAL	Α	481	24.167	61.693	52.392	1.00	69.11	C
ATOM	7209	CG1	VAL	Δ	481	22.737	61.873	51.999	1 00	71.00	С
ATOM	1213	CGZ	VAL	А	481	24.349	61.727	53.885	1.00	68.55	С
ATOM	7217	С	VAL	Α	481	24.142	59.795	50.629	1.00	65.55	С
ATOM	7218	0	VAL	7\	101	24.589					
							60.047	49.535		66.48	0
ATOM	7219	N	CYS	Α	482	23.053	59.055	50.768	1.00	69.26	N
ATOM	7221	CA	CYS	Δ	482	22.381	58.508	49.580	1 00	68.72	С
ATOM	1223	CB	CYS			21.207	57.639	49.988	T'00	67.54	C
ATOM	7226	SG	CYS	Α	482	21.874	56.056	50.630	1.00	70.71	S
ATOM	7227	С	CYS								
						21.898	59.552	48.623		69.13	С
ATOM	7228	0	CYS	Α	482	21.270	60.487	49.030	1.00	70.33	0
ATOM	7229	N	HIS	24	483	22.230	59.344	47.354	1 00	68.81	N
ATOM	1231	CA	HIS	А	483	21.865	60.191	46.211	T.00	69.88	C
ATOM	7233	CB	HIS	Α	483	22.206	59.481	44.903	1.00	68.48	С
ATOM		CG	HIS								
						22.273	60.355	43.700	1.00	69.95	С
ATOM	7237	ND1	HIS	Α	483	23.344	60.319	42.843	1.00	71.52	И
ATOM	7239	CEI	HIS	Ζ	483	23.138	61.154	41.840	1 00	72.59	C
ATOM	1241	NEZ	HIS	А	483	21.952	61.697	41.998	1.00	71.71	N
ATOM	7243	CD2	HIS	Α	483	21.383	61.207	43.144	1.00	70.25	C
MOTA		C	HIS			20.394				70.55	,
							60.442	46.219			C
MOTA	7246	0	HIS	Α	483	19.633	59.603	46.639	1.00	69.08	0
ATOM	7247	N	ALA	Д	484	20.033	61.644	45.777	1 00	73.54	Ŋ
ATOM	1249	CA	ALA	A	484	18.667	62.058	45.466	1.00	74.84	C
MOTA	7251	CB	ALA	Α	484	18.715	63.282	44.604	1.00	77.22	C
MOTA	7255	С	ALA	7\	181	17.804	60.997	44.766		73.78	С
		_									
MOTA	/256	0	ALA	Α	484	16.634	60.816	45.150	1.00	74.54	0
MOTA	7257	N	LEU	Α	485	18.360	60.294	43.758	1.00	72.45	N
MOTA						17.549					
		CA	LEU			17.549	59.450	42.876	T.00	70.78	C
MOTA	7261	CB	LEU	Α	485	18.233	59.189	41.526	1.00	69.85	С
MOTA	7264	CG	LEU	Z \	485	18.417	60.352	40.554	1 00	71.18	C
MOTA		CDT	LEU	А	485	19.226	59.942	39.360	1.00	68.77	С
MOTA	7270	CD2	LEU	Α	485	17.087	60.885	40.150	1.00	71.99	C
MOTA											
		С	LEU			17.292	58.146	43.572	T.00	68.77	C
ATOM	7275	0	LEU	Α	485	16.758	57.226	42.968	1.00	67.85	0
ATOM	7276	N	CYS	Z	186	17.658	58.059			68.16	
								44.846			N
ATOM		CA	CYS			17.418	56.844	45.588	T.00	66.85	C
MOTA	7280	CB	CYS	Α	486	18.531	56.547	46.571	1.00	66.88	C
MOTA		SG	CYS			20.068	56.462	45.781	T.00	68.62	S
ATOM	7284	С	CYS	Α	486	16.216	56.889	46.426	1.00	66.34	C
ATOM		0	CYS			15.944	57.829				
								47.074		66.83	0
ATOM	1286	И	SER	Α	487	15.563	55.767	46.427	1.00	65.87	N
ATOM	7288	CA	SER	Д	487	14.601	55.373	47.382		67.61	С
ATOM		CB	SER			14.455	53.894	47.096		66.72	С
MOTA	7293	OG .	SER	Α	487	13.753	53.245	48.093	1.00	71.71	0
MOTA		С	SER			15.053	55.580	48.835		68.27	C
MOTA	/296	0	SER	Α	487	16.270	55.700	49.159	1.00	68.64	0

МОТА	7297	N	PRO	Δ.	488	14.094	55.577	49.752	1 00	69.67	N
	7298	CA			488	14.443	55.564	51.181		69.32	C
	7300	CB			488	13.149	56.052	51.860	1.00	71.17	c
	7303	CG			488	12.071	55.622	50.953	1.00	72.01	C
	7306	CD			488	12.636	55.635	49.538	1.00	71.29	C
	7300	C			488	14.869	54.179		1.00		
	7310				488			51.626			C
		O N				14.883	53.915	52.804		67.71	0
	7311	N			489	15.262	53.315	50.688		66.05	N
	7313	CA			489	15.650	51.931	50.990		64.34	C
	7315	CB			489	14.944	51.012	49.979		64.65	C
	7318	CG			489	13.950	49.987	50.564		66.51	C
	7321	CD			489	13.583	48.907	49.525	1.00		С
	7322		GLU			13.820	47.707	49.835	1.00		0
	7323	OE2			489	13.131	49.249	48.381		70.48	0
	7324	C			489	17.197	51.761	50.970			C
	7325	0			489	17.725	50.641	50.992		60.23	0
	7326	N			490	17.902	52.885	50.883	1.00		N
	7328	CA			490	19.311	52.942	51.176	1.00	60.24	C
	7331	С			490	20.262	52.839	50.001	1.00	59.52	C
	7332	0	GLY	A	490	19.800	52.615	48.891	1.00	59.65	0
	7333	N			491	21.577	52.973	50.241	1.00	58.69	N
	7335	CA	CYS	Ά	491	22.579	52.834	49.190	1.00	58.30	C
ATOM	7337	CB	CYS	Α	491	23.088	54.159	48.688	1.00	59.18	С
ATOM	7340	SG	CYS	Α	491	23.678	55.247	49.964	1.00	59.51	S
ATOM	7341	C	CYS	Α	491	23.768	52.133	49.698	1.00	58.17	С
ATOM	7342	0	CYS	Α	491	23.906	52.025	50.870	1.00	60.09	0
ATOM	7343	N	TRP	Α	492	24.644	51.722	48.785	1.00	57.47	N
ATOM	7345	CA	TRP	Α	492	25.960	51.167	49.054	1.00	57.58	С
ATOM	7347	CB	TRP	Α	492	26.198	49.914	48.208	1.00	57.23	С
MOTA	7350	CG	TRP	Α	492	25.251	48.846	48.427	1.00	56.66	С
MOTA	7351	CD1	TRP	Α	492	24.125	48.616	47.769	1.00	56.12	С
ATOM	7353	NE1	TRP	Α	492	23.504	47.505	48.257	1.00	56.13	N
ATOM	7355	CE2	TRP	Α	492	24.257	47.030	49.275	1.00	56.67	C
ATOM	7356	CD2	TRP	Α	492	25.367	47.843	49.384	1.00	56.95	С
ATOM	7357	CE3	TRP	Α	492	26.323	47.539	50.332		57.68	c
ATOM	7359	CZ3	TRP	A	492	26.133	46.504	51.114		58.09	C
ATOM	7361	CH2	TRP			25.012	45.719	50.987		57.91	C
ATOM	7363	CZ2	TRP	Α	492	24.068	45.969	50.056		57.20	C
ATOM	7365	С			492	26.997	52.155	48.596		58.58	C
	7366	0			492	28.024	51.764	48.120		59.09	0
	7367	N			493	26.736	53.443	48.717		59.23	N
	7369	CA			493	27.584	54.415	48.045		60.57	Ċ
	7372	C			493	26.905	55.667	47.512		61.34	Ċ
	7373	0			493	25.700	55.817	47.542		60.80	Ö
ATOM		N			494	27.715	56,602	47.067		63.04	N
ATOM		CA			494	27.223	57.926	46.798		65.24	Ċ
	7377	CB			494	28.514	58.706	46.562		67.15	c
MOTA		CG			494	29.467	57.738	46.091		66.26	Ċ
ATOM		CD			494	29.148	56.516	46.802		64.20	c
	7386	C			494	26.328	57.929	45.573		66.33	C
ATOM		0			494	25.317	58.597	45.559		68.00	Ö
ATOM		N			495	26.684	57.109	44.592		66.87	N
ATOM		CA			495	26.191	57.194	43.228		67.29	C
ATOM		CB			495	27.262	56.599	42.343		67.64	C
ATOM		CG			495	28.401	57.573	42.148			C
ATOM		CD	GLU			29.577	56.927	42.146		71.68	C
										76.82	
ATOM ATOM			GLU GLU			29.470	55.740 57.625	40.951		75.08	0
					495	30.632		41.377		82.21	0
ATOM ATOM		C				24.837	56.544	42.919		65.80	C
		NI O	GLU			24.367	55.692	43.676		63.46	0
ATOM		N			496	24.192	56.963	41.810		67.18	N
ATOM		CA	PRO			22.872	56.413	41.435		65.83	C
ATOM		CB			496	22.428	57.256	40.256		66.55	C
MOTA		CG			496	23.607	57.978	39.815		69.03	C
ATOM		CD			496	24.636	58.013	40.872		69.18	C
MOTA		C	PRO			22.869	54.918	41.127		64.10	C
MOTA		O N	PRO			21.872	54.322	41.478		64.50	0
MOTA	/41/	N	ARG	А	497	23.927	54.318	40.585	1.00	63.43	N

ATOM	7419	CA	ARG	Α	497	23.998	52.856	40.554	1.00	61.81	С
ATOM	7421	CB	ARG	Α	497	25.102	52.371	39.600		62.79	C
ATOM	7424	CG	ARG	Α	497	26.384	53.144	39.609		64.56	C
ATOM	7427	CD	ARG	Α	497	27.644	52.336	39.155	1.00	65.35	С
ATOM	7430	NE	ARG	A	497	28.741	52.771	40.030	1.00	68.46	N
ATOM	7432	CZ			497	30.025	52.441	39.960	1.00	68.79	С
ATOM	7433		ARG			30.472	51.636	39.000	1.00	68.43	N
	7436	NH2	ARG			30.864	52.943	40.888	1.00	69.25	N
	7439	С			497	24.213	52.199	41.913		60.94	С
	7440	0			497	24.213	50.997	42.032		60.39	0
	7441	Ń			498	24.436	52.990	42.939		61.84	N
	7443	CA			498	24.624	52.484	44.285		60.98	C
	7445 7448	CB CG			498 498	25.579	53.410	45.067		62.53	C
	7449		ASP			27.019 27.333	53.424 52.507	44.503		62.37	С
	7450		ASP			27.902	54.266	43.754 44.765		63.21 61.45	0
	7451	C			498	23.314	52.291	45.059		60.30	C
	7452	Ö			498	23.324	51.685	46.104		58.31	0
	7453	N			499	22.172	52.740	44.543		61.23	N
	7455	CA			499	20.943	52.486	45.291		61.84	C
ATOM	7457	CB	CYS	Α	499	19.812	53.357	44.872		62.74	Ċ
MOTA	7460	SG	CYS	Α	499	20.331	54.978	44.411		66.84	S
MOTA	7461	С	CYS	Α	499	20.433	51.076	45.244		61.36	C
ATOM	7462	0	CYS	Α	499	20.878	50.243	44.460	1.00	61.72	0
ATOM	7463	N	VAL	Α	500	19.488	50.844	46.136	1.00	61.48	N
ATOM	7465	CA	VAL	Α	500	18.869	49.574	46.344	1.00	61.04	C
	7467	CB			500	18.561	49.388	47.868	1.00	61.98	С
	7469		VAL			17.793	48.079	48.131	1.00	63.20	C
	7473		VAL			19.840	49.433	48.728		60.20	С
	7477	С			500	17.588	49.573	45.554		61.08	С
	7478	0			500	17.157	48.532	45.141		61.21	0
	7479	N			501	16.978	50.746	45.391		61.78	N
	7481 7483	CA			501	15.715	50.963	44.651		62.67	C
	7486	CB OG			501 501	14.496	50.409	45.457		63.41	C
	7488	C			501	14.295 15.580	50.992 52.495	46.745 44.276		62.89 64.49	0 C
	7489	0			501	16.205	53.346	44.276		65.53	0
	7490	N			502	14.796	52.870	43.271		65.42	N
ATOM		CA			502	14.828	54.267	42.789		67.75	C
ATOM		CB			502	14.768	54.264	41.279		67.77	C
MOTA	7497	SG			502	16.221	53.363	40.726		74.29	s
MOTA	7498	C	CYS	Α	502	13.720	55.123	43.312		68.44	C
MOTA	7499	0	CYS	Α	502	12.717	54.556	43.656	1.00	69.58	0
ATOM	7500	N	ALA	A	503	13.838	56.455	43.368	1.00	68.92	N
MOTA		CA	ALA	Α	503	12.653	57.227	43.798	1.00	71.83	С
MOTA	7504	CB	ALA	A	503	12.941	58.787	44.045		73.74	С
MOTA		С	ALA			11.611	57.004	42.683		72.91	С
MOTA		0	ALA			10.457	56.658	42.934		72.96	0
ATOM		N	ASN			12.089	57.121	41.445		72.99	N
ATOM ATOM		CA	ASN ASN			11.256	57.123	40.243		74.36	C
ATOM		CB CG	ASN			11.575 11.494	58.361 59.602	39.406		75.32	C C
ATOM			ASN			10.412	60.228	40.235 40.359		78.00 82.73	0
MOTA			ASN			12.596	59.937	40.899		75.00	И
MOTA		C	ASN			11.434	55.846	39.457		73.02	C
MOTA		Ō	ASN			10.662	54.873	39.645		72.93	ő
ATOM		N	VAL			12.501	55.828	38.644		72.34	N
MOTA		CA	VAL			12.729	54.790	37.645		70.30	C
MOTA		CB	VAL			12.389	55.347	36.278		71.79	Č
MOTA	7530	CG1	VAL	Α	505	12.524	54.251	35.263		71.94	С
ATOM	7534	CG2	VAL	A	505	11.011	55.887	36.245		72.79	С
MOTA		С	VAL	A	505	14.158	54.374	37.502	1.00	67.81	С
MOTA		0	VAL			15.046	55.143	37.612	1.00	68.17	0
MOTA		N	SER			14.376	53.149	37.128		66.94	N
ATOM		CA	SER			15.736	52.664	36.881		65.51	С
MOTA		CB	SER			15.987	51.363	37.643		63.70	C
MOTA		OG	SER			14.880	50.489	37.521		63.05	0
MOTA	1349	C	SER	А	200	15.894	52.410	35.406	1.00	65.47	С

MOTA	7550	0	SER	Α	506	14.922	52.084	34.730	1.00	65.31	0
ATOM	7551	N	ARG	A	507	17.104	52.648	34.920	1.00	66.02	N
ATOM	1553	CA	ARG	А	507	17.563	52.198	33.606	1.00	66.52	C
MOTA	7555	CB	ARG	Ά	507	18.321	53.306	32.922	1 - 00	67.29	C
MOTA	7558	CG	ARG	А	507	18.520	53.085	31.458	T.00	67.04	C
MOTA	7561	CD	ARG	Α	507	19.211	54.254	30.845	1.00	69.49	C
MOTA		NE	ARG	А	507	18.350	55.355	30.381		72.58	И
MOTA	7566	CZ	ARG	Α	507	18.876	56.525	29.999	1.00	77.80	C
A LILOVA	7567										
MOTA			ARG			20.241	56.684	30.043		76.65	N
MOTA	7570	NH2	ARG	Α	507	18.076	57.514	29.521	1.00	79.53	N
MOTA	7573	C	ARG	7\	507	18.500	51.002	33.751	1 00	66.50	С
MOTA	7574	0	ARG	А	507	19.747	51.161	33.656	1.00	66.13	0
ATOM	7575	N	GLY	Д	508	17.900	49.833	34.047	1.00	66.65	N
ATOM	1511	$^{\rm CA}$	GLY	А	508	18.644	48.603	34.086	T.00	65.74	C
ATOM	7580	C	GLY	Α	508	19.525	48.460	35.303	1.00	65.94	C
ATOM	128T	O	GLY	А	508	19.625	47.337	35.840	T.00	66.96	0
ATOM	7582	N	ARG	Α	509	20.223	49.516	35.730	1.00	66.56	Ñ
ATOM		CA	ARG			21.083	49.445	36.964		66.64	C
MOTA	7586	CB	ARG	Α	5,09	22.489	48.881	36.701	1.00	66.71	C
ATOM	7580	CG	NDC	7\	509	23.298	49.663	35.556	1 00	69.61	С
ATOM	7592	CD	ARG	Α	509	23.416	48.867	34.185	1.00	70.79	C
ATOM	7595	NE	ARG	Δ	509	24.374	49.468	33.244	1 00	73.28	N
ATOM	1591	CZ	ARG	А	509	25.628	48.985	32.971	1.00	75.15	C
MOTA	7598	NH1	ARG	Α	509	26.131	47.881	33.569	1.00	71.78	N
MOTA	/ POT	NHZ	ARG	A	509	26.402	49.636	32.074	1.00	77.07	N
ATOM	7604	С	ARG	Α	509	21.264	50.782	37.627	1.00	66.73	C
MOTA		0	ARG	А	509	21.410	50.847	38.811		67.34	0
ATOM	7606	И	GLU	Α	510	21.297	51.853	36.858	1.00	67.08	N
ATOM	7608	CA	GLU	Δ.	510	21.459	53.183	37.434	1.00	67.32	С
ATOM	7610	CB	GLU	Α	510	22.246	54.101	36.478	1.00	68.74	C
MOTA	7613	CG	GLU	Δ	510	21.936	55.585	36.586	1 00	70.35	C
MOTA	\ \rho \to align*	CD	GLU	А	210	22.933	56.425	35.809	T.00	74.79	C
ATOM	761.7	OE1	GLU	А	510	23.986	55.840	35.426	1.00	74.61	0
			GLU								
MOTA	10ТО	OEZ	GTO	А	210	22.658	57.652	35.572	1.00	77.88	0
ATOM	7619	С	GLU	Α	510	20.078	53.729	37.693	1.00	66.81	C
ATOM		0	GLU			19.137	53.401	36.977		66.94	0
MOTA	7621	N	CYS	Α	511	19.959	54.554	38.719	1.00	66.39	N
MOTA	7623	CA	CVG	Δ	511	18.693	55.135	39.066	1 00	66.14	С
					•						
ATOM	7625	CB	CYS	Α	511	18.610	55.343	40.548	1.00	65.95	С
ATOM	7628	SG	CYS	Ά	51.1	18.160	53.799	41.363	1.00	62.99	S
MOTA	7629	С	CYS	А	211	18.661	56.414	38.318	1.00	68.45	C
ATOM	7630	0	CYS	Α	511	19.671	57.145	38.275	1.00	69.88	0
MOTA	763I	N	VAL	Α	212	17.519	56.652	37.670	T.00	69.26	N
ATOM	7633	$^{\rm CA}$	VAL	А	512	17.284	57.840	36.860	1.00	71.01	C
MOTA	7625	CB	VAL	7\	510	17.364	57.499	35.357	1.00	70.31	С
ATOM	7637	CG1	VAL	Α	512	17.763	58.724	34.563	1.00	74.73	C
ATOM	7641	CG2	VAL	ΖΔ.	512	18.413	56.495	35.122	1 00	69.40	С
MOTA	/645	С	VAL			15.961	58.568	37.218	T.00	72.75	С
MOTA	7646	0	VAL	Α	512	14.991	57.984	37.710	1.00	71.70	0
ATOM	7647	N	ASP	А	213	15.953	59.871	36.952	1.00	75.55	N
ATOM	7649	CA	ASP	Α	513	14.763	60.722	37.132	1.00	78.34	C
ATOM		CB	ASP			15.195	62.210	37.064		82.23	С
ATOM	7654	CG	ASP	Α	513	15.778	62.604	35.666	1.00	86.47	C
ATOM	7655	OD1	ASP	Δ	513	16.485	61.724	35.028	1 00	85.95	0
ATOM	7656	QD2	ASP	Α	513	15.527	63.750	35.143	1.00	89.04	0
ATOM	7657	С	ASP	Д	51.3	13.600	60.486	36.136	1.00	78.00	C
MOTA	1658	0	ASP			12.407	60.618	36.490	T.00	78.71	0
ATOM	7659	N	LYS	Α	514	13.936	60.184	34.885	1.00	76.63	N
ATOM		ÇA	LYS			12.907	60.080	33.832		77.37	С
ATOM	7663	CB	LYS	Α	514	12.661	61.438	33.090	1.00	79.82	C
		C				13.389				74.72	
ATOM			LYS				59.087	32.841			C
ATOM	7671	0	LYS	Α	514	14.568	58.916	32.682	1.00	71.86	0
ATOM	7672	N	CYS			12.473	58.478	32.118		75.49	N
ATOM	16/4	CA	CYS	А	2T2	12.882	57.736	30.931	T.00	75.27	C
ATOM	7676	CB	CYS	Α	515	11.953	56.576	30.660	1,00	74.23	C
	- / -									75.96	S
AIUM	7670				515	12.029	55.503	32.049	1.00	17 40	<u> </u>
	7679	SG					55.565			73.30	
ATOM		C	CYS								c
	7680			Α	515	12.878 12.396	58.608 59.736	29.723 29.762	1.00	77.45 80.72	

13.375 58.047 28.632 1.00 76.28 13.450 58 745 07 000 ATOM 7682 N ASN A 516 N ATOM 7684 CA ASN A 516 13.450 58.745 27.390 1.00 78.27 14.682 58.263 26.628 1.00 76.82 ATOM 7686 CB ASN A 516 ATOM 7689 CG ASN A 516 15.962 58.751 27.257 1.00 76.59 ATOM 7690 OD1 ASN A 516 15.913 59.562 28.158 1.00 76.10 17.118 58.255 26.792 1.00 78.58 12.162 58.593 26.589 1.00 79.48 ATOM 7691 ND2 ASN A 516 ATOM 7694 C ASN A 516 1.00 79.48 C 12.214 58.369 25.392 1.00 80.32 ATOM 7695 ASN A 516 0 0 ATOM 7696 N LEU A 517 11.005 58.722 27.247 1.00 80.26 N ATOM 7698 CA LEU A 517 9.729 58.866 26.540 1.00 81.89 8.536 58.802 27.508 1.00 82.29 8.472 57.763 28.612 1.00 78.11 7.256 57.874 29.493 1.00 78.46 ATOM 7700 CB LEU A 517 C ATOM 7703 CG LEU A 517 С ATOM 7705 CD1 LEU A 517 C ATOM 7709 CD2 LEU A 517 8.494 56.410 27.960 1.00 77.57 C C LEU A 517 ATOM 7713 9.787 60.258 25.953 1.00 85.89 9.879 61.252 26.730 1.00 89.33 9.773 60.389 24.633 1.00 86.14 9.569 61.731 24.037 1.00 89.84 ATOM 7714 LEU A 517 0 0 N ATOM 7715 LEU A 518 N ATOM 7717 CA LEU A 518 C ATOM 7719 CB LEU A 518 8.620 62.609 24.906 1.00 92.23 CB LEU A 516

CG LEU A 518

7.226 62.059 25.263 1.00 91.47

CD1 LEU A 518

6.556 62.839 26.352 1.00 93.70

CD2 LEU A 518

6.382 62.115 24.048 1.00 93.66

C LEU A 518

10.827 62.542 23.724 1.00 90.91

O LEU A 518

10.733 63.588 23.093 1.00 94.73 C ATOM 7722 C ATOM 7724 С ATOM 7728 ATOM 7732 С ATOM 7733 0 11.990 62.050 24.106 1.00 88.21 13.211 62.857 24.134 1.00 90.11 13.100 64.031 25.150 1.00 92.09 ATOM 7734 N ATOM 7736 GLU A 519 CA С ATOM 7738 CB GLU A 519 С 14.289 61.868 24.579 1.00 87.46 ATOM 7745 C GLU A 519 С ATOM 7746 0 GLU A 519 14.162 61.310 25.671 1.00 86.35 0 15.305 ATOM 7747 N GLY A 520 61.576 23.753 1.00 87.39 N ATOM 7749 16.367 60.664 24.168 1.00 84.28 17.184 59.916 23.123 1.00 83.49 CA GLY A 520 С ATOM 7752 GLY A 520 С С 16.762 59.776 21.962 1.00 83.56 ATOM 7753 GLY A 520 0 ATOM 7754 N GLU A 521 18.343 59.402 23.598 1.00 82.41 N 19.346 58.645 22.811 1.00 81.13 20.537 58.131 23.652 1.00 79.67 18.600 57.538 22.157 1.00 78.75 ATOM 7756 CA GLU A 521 C ATOM 7758 CB GLU A 521 С GLU A 521 ATOM 7765 C С 18.095 57.788 21.071 1.00 81.59 ATOM 7766 GLU A 521 0 18.450 56.371 22.786 1.00 75.18 17.393 55.446 22.365 1.00 72.91 17.911 54.074 22.846 1.00 70.53 18.755 54.376 24.063 1.00 70.29 ATOM 7767 PRO A 522 N N ATOM 7768 CA PRO A 522 C ATOM 7770 CB PRO A 522 C ATOM 7773 CG PRO A 522 С ATOM 7776 CD PRO A 522 19.206 55.822 23.940 1.00 73.90 С ATOM 7779 C PRO A 522 16.098 55.838 23.085 1.00 72.50 16.099 56.091 24.277 1.00 71.74 15.000 55.914 22.354 1.00 73.17 13.700 56.209 22.950 1.00 73.74 ATOM 7780 0 PRO A 522 0 ATOM 7781 N ARG A 523 Ν ATOM 7783 CA ARG A 523 С ATOM 7785 CB ARG A 523 12.642 56.629 21.883 1.00 75.26 С 13.348 54.933 23.704 1.00 70.93 ATOM 7794 С ARG A 523 C 13.763 53.837 23.330 1.00 68.98 12.655 55.074 24.817 1.00 71.17 12.390 53.915 25.690 1.00 69.50 ATOM 7795 0 ARG A 523 0 ATOM 7796 N GLU A 524 N ATOM 7798 CA GLU A 524 C ATOM 7800 CB GLU A 524 13.381 53.846 26.934 1.00 67.31 С 10.900 53.981 26.076 1.00 70.75 ATOM 7807 C GLU A 524 С 10.278 55.027 25.933 1.00 72.03 10.339 52.834 26.487 1.00 70.41 ATOM 7808 0 GLU A 524 0 ATOM 7809 PHE A 525 1.00 70.41 И N 9.073 52.756 27.238 1.00 71.56 ATOM 7811 CA PHE A 525 С ATOM 7813 CB PHE A 525 8.072 51.852 26.513 1.00 71.53 C ATOM 7816 CG PHE A 525 8.376 50.386 26.625 1.00 68.87 7.672 49.582 27.527 1.00 66.88 7.933 48.262 27.624 1.00 65.64 ATOM 7817 CD1 PHE A 525 С ATOM 7819 CE1 PHE A 525 8.923 47.692 26.821 1.00 65.09 ATOM 7821 CZ PHE A 525 С ATOM 7823 CE2 PHE A 525 9.625 48.470 25.920 1.00 64.47 C ATOM 7825 CD2 PHE A 525 9.348 49.810 25.824 1.00 66.17 ATOM 7827 C PHE A 525 9.370 52.267 28.663 1.00 70.74 С 10.511 52.060 2... 8.350 52.071 29.478 1.00 /2... 8.512 51.804 30.902 1.00 71.94 ATOM 7828 0 PHE A 525 29.014 1.00 69.95 0 VAL A 526 ATOM 7829 N N ATOM 7831 CA VAL A 526 C

T IT OM	7022	an.	T 7 70 T	70	EOC	0 000	FO 000	21 606	1 00	72 00	0
MOTA		CB			526	8.002	52.989	31.696		73.98	C
ATOM	7835		VAL			7.837	52.617	33.185	1.00	75.09	C
ATOM	7839	CG2	VAL	Α	526	8.908	54.239	31.481	1.00	74.24	C
ATOM	7843	С	VAL	Α	526	7.648	50.632	31.327	1.00	73.13	C
ATOM	7844	0	VAL	Α	526	6.495	50.506	30.870	1.00	75.47	0
ATOM		N			527	8.176	49.785	32.218		72.37	N
					527	7.356					C
	7847	CA					48.786	32.900		73.28	
ATOM		CB			527	7.025	47.568	32.001		73.10	C
ATOM		CG			527	8.218	46.727	31.521		71.94	C
ATOM	7855	CD	GLU	Α	527	7.836	45.371	30.851	1.00	72.04	C
MOTA	7856	OE1	GLU	Α	527	6.743	45.307	30.202	1.00	69.38	0
ATOM	7857	OE2	GLU	Α	527	8.648	44.377	30.965	1.00	68.38	0
ATOM	7858	С	GLU	Α	527	8.000	48.365	34.226	1.00	72.76	С
ATOM	7859	0	GLU	Α	527	9.115	47.824	34.258	1.00	71.27	0
ATOM		N			528	7.244	48.589	35.308		74.36	N
ATOM		CA			528	7.661	48.313	36.678		73.60	C
ATOM		СВ			528	7.986	46.830	36.923		72.97	C
ATOM		CG			528	7.226	45.878	35.978		75.77	C
MOTA			ASN			5.990	45.973	35.798		77.45	0
MOTA	7869	ND2	ASN			7.978	44.952	35.353	1.00	77.81	N
MOTA	7872	С	ASN	Α	528	8.833	49.221	36.924	1.00	71.99	C
ATOM	7873	0	ASN	Α	528	9.871	48.815	37.396	1.00	71.09	0
ATOM	7874	И	SER	Α	529	8.652	50.478	36.543	1.00	72.85	N
ATOM	7876	CA	SER	Α	529	9.608	51.521	36.862	1.00	71.65	С
MOTA		СВ			529	9.699	51.713	38.387		72.07	C
ATOM		OG			529	8.447	52.198	38.850		75.50	Ō
ATOM		C			529	10.965	51.223	36.289		68.41	Č
							51.654			67.15	
ATOM		0			529	11.971		36.838			0
ATOM		N			530	11.000	50.523	35.172		66.50	И
MOTA		CA			530	12.270	50.325	34.533		65.30	С
ATOM		CB	GLU	Α	530	12.844	48.908	34.841		64.54	С
MOTA	7892	CG	GLU	Α	530	12.086	47.695	34.312	1.00	67.37	C
MOTA	7895	CD	GLU	Α	530	12.640	46.360	34.858	1.00	71.17	C
ATOM	7896	OE1	GLU	Α	530	13.473	46.411	35.793	1.00	73.46	0
ATOM	7897	OE2	GLU	A	530	12.263	45.242	34.358	1.00	73.29	0
ATOM		С			530	12.191	50.692	33.060		64.85	С
ATOM		0			530	11.152	50.638	32.500		65.79	Ō
ATOM		N			531	13.302	51.128	32.477		64.45	N
ATOM		CA				13.370	51.702			65.38	C
					531			31.133			
ATOM		CB			531	14.157	52.986	31.109		66.14	C
ATOM		SG			531	13.296	53.919	32.284		71.12	S
ATOM		С			531	14.000	50.813	30.142		64.46	C
MOTA		0			531	15.195	50.531	30.187		63.28	0
MOTA	7910	N	ILE	Α	532	13.178	50.491	29.167	1.00	65.37	N
MOTA	7912	CA	ILE	Α	532	13.468	49.509	28.187	1.00	65.17	С
MOTA	7914	CB	ILE	Α	532	12.381	48.517	28.302	1.00	65.55	C
ATOM	7916	CG1	ILE	Α	532	12.447	47.966	29.713	1.00	66.66	C
ATOM	7919	CD1	ILE	Α	532	11.359	47.069	29.980	1.00	70.19	C
ATOM			ILE			12.541	47.427	27.274		65.55	C
MOTA		С	ILE			13.464	50.131	26.825		65.90	C
ATOM		Ô	ILE			12.544	50.839	26.477		66.89	Ö
MOTA		N			533	14.500	49.835	26.049		66.08	N
ATOM		CA			533	14.651	50.416	24.711		67.62	C
ATOM		CB			533	15.969	49.974	24.060		67.56	C
ATOM		CG			533	17.233	50.681	24.519		69.80	С
MOTA	7939	CD	GLN	Α	533	18.451	49.923	24.040	1.00	70.83	С
MOTA	7940	OE1	GLN	Α	533	18.620	49.748	22.845	1.00	72.01	0
MOTA	7941	NE2	GLN	Α	533	19.251	49.412	24.962	1.00	71.14	N
MOTA	7944	C	GLN	Α	533	13.558	49.968	23.770	1.00	67.44	С
MOTA	7945	0	GLN	Α	533	13.113	48.818	23.791	1.00	65.57	0
ATOM		N	CYS			13.183	50.881	22.895		68.65	N
ATOM		CA	CYS			12.323	50.512	21.786		69.43	Ċ
ATOM		СВ			534	11.753	51.740	21.154		71.08	Č
ATOM		SG			534	10.611	52.557	22.300		73.86	S
ATOM						13.126	49.751	20.777			C
		C	CYS							68.25	
MOTA		0			534	14.262	50.108	20.508		68.52	0
MOTA		N	HIS			12.543	48.707	20.222		66.84	N
MOTA	1958	CA	HIS	А	535	13.212	48.012	19.163	T.00	65.78	С

ATOM 796	50 CB	HTS	Δ	535	12.216	47.085	18.497	1.00 66.02		С
ATOM 796				535	12.824	46.218	17.462	1.00 64.32		Ċ
ATOM 796		HIS			13.031	46.638	16.175	1.00 61.92		N
ATOM 796		HIS			13.599	45.677	15.489	1.00 64.12		С
ATOM 796	58 NE2	HIS	Α	535	13.800	44.658	16.299	1.00 65.31		N
ATOM 797	0 CD2	HIS	Α	535	13.337	44.980	17.543	1.00 64.19		C
ATOM 79	12 C	HIS	Α	535	13.822	49.045	18.165	1.00 66.70		С
ATOM 797	3 0	HIS	А	535	13.217	50.069	17.907	1.00 68.03		0
ATOM 797				536	15.028	48.800	17.637	1.00 66.72		N
ATOM 797				536	15.804					
						49.881	16.971	1.00 67.56	,	C
ATOM 797				536	17.231	49.296	16.821	1.00 67.39		C
ATOM 798				536	17.085	47.783	16.953	1.00 66.07		С
ATOM 798	3 CD	PRO	Α	536	15.762	47.502	17.657	1.00 65.17		C
ATOM 798	16 C	PRO	A	536	15.311	50.179	15.631	1.00 68.62		C
ATOM 798	7 0	PRO	Α	536	15.855	51.051	14.996	1.00 70.04		0
ATOM 798	88 N	GLU			14.367	49.374	15.170	1.00 68.61		N
ATOM 799		GLU			13.650	49.638	13.937	1.00 69.99		C
ATOM 799		GLU								
					13.211	48.324	13.277	1.00 68.51		C
ATOM 799		GLU			14.325	47.611	12.610	1.00 68.09		C
ATOM 799		GLU			15.045	48.492	11.626	1.00 70.66		C
ATOM 799	9 OE1	GLU	Α	537	14.402	49.367	11.003	1.00 74.79		0
ATOM 800	0 OE2	GLU	Α	537	16.267	48.319	11.485	1.00 72.71		0
008 MOTA	1 C	GLU	Α	537	12.418	50.521	14.139	1.00 71.72		С
ATOM 800		GLU			11.672	50.711	13.201	1.00 74.11		0
ATOM 800		CYS			12.169	51.060	15.325	1.00 71.85		И
ATOM 800		CYS								
					11.143	52.088	15.421	1.00 73.89		C
ATOM 800		CYS			10.500	52.152	16.780	1.00 74.04		С
ATOM 801		CYS			9.888	50.553	17.320	1.00 72.72		S
ATOM 801	.1 C	CYS	A	538	11.770	53.404	15.135	1.00 75.65		C
ATOM 801	.2 0	CYS	Α	538	12.918	53.645	15.498	1.00 74.35		0
ATOM 801	.3 N	LEU	Α	539	10.989	54.235	14.445	1.00 78.81		N
ATOM 801	.5 CA	LEU	Α	539	11.368	55.584	14.097	1.00 81.09		С
ATOM 801		LEU			10.672	55.993	12.829	1.00 83.53		Ċ
ATOM 802		LEU			11.126	57.328				
							12.277	1.00 86.35		C
ATOM 802		LEU			12.585	57.287	11.828	1.00 85.10		C
ATOM 802		LEU			10.163	57.659	11.175	1.00 88.79		C
ATOM 803	0 C	LEU	Α	539	10.960	56.483	15.249	1.00 82.49		C
ATOM 803	1 0	LEU	Α	539	9.773	56.549	15.611	1.00 82.07		0
ATOM 803	2 N	PRO	Α	540	11.968	57.076	15.893	1.00 83.31		N
ATOM 803	3 CA	PRO	Α	540	11.736	58.147	16.878	1.00 84.93		С
ATOM 803		PRO			13.129	58.776	17.104	1.00 85.34		Č
ATOM 803		PRO			14.139	57.881	16.384	1.00 84.21		C
		PRO			13.398	56.694				C
ATOM 804							15.818	1.00 81.81		
ATOM 804		PRO			10.784	59.185	16.374	1.00 88.12		С
ATOM 804		PRO			10.908	59.595	15.238	1.00 89.43		0
ATOM 804	6 N	$_{ m GLN}$	A	541	9.886	59.604	17.258	1.00 89.34		N
ATOM 804	8 CA	GLN	Α	541	8.794	60.495	16.962	1.00 92.72		C
ATOM 805	0 CB	GLN			7.463	59.830	17.324	1.00 92.16		C
ATOM 805	3 CG	GLN	Α	541	7.171	58.527	16.577	1.00 89.77		С
ATOM 805		GLN			6.354	58.684	15.285	1.00 92.88		C
ATOM 805		GLN			5.697	59.736	15.027	1.00 96.32		Ô
ATOM 805		GLN			6.385	57.629	14.462	1.00 88.98		N
ATOM 806		GLN			8.961	61.755	17.791	1.00 95.58		C
ATOM 806	2 0	GLN			8.962	61.700	19.017	1.00 93.76		0
ATOM 806	3 N	ALA	Α	542	9.043	62.898	17.103	1.00100.12		N
ATOM 806	5 CA	ALA	Α	542	9.171	64.199	17.758	1.00103.21		С
ATOM 806	7 CB	ALA	Α	542	9.082	65.306	16.720	1.00107.95		С
ATOM 807		ALA			8.092	64.366	18.819	1.00104.03		Č
ATOM 807		ALA			8.396					0
						64.498	19.999	1.00103.11		
ATOM 807		MET			6.834	64.281	18.400	1.00105.83		N
ATOM 807		MET			5.718	64.631	19.277	1.00108.35		C
ATOM 807		MET			4.430	64.701	18.477	1.00111.35		С
ATOM 808	0 CG	MET	A	543	4.523	65.603	17.241	1.00116.25		С
ATOM 808	3 SD	MET	A	543	4.822	67.395	17.470	1.00123.15		S
ATOM 808		MET			6.486	67.662	18.473	1.00119.09		Č
ATOM 808		MET			5.518	63.708	20.482	1.00105.56		C
ATOM 808		MET			5.645	64.161	21.642			
								1.00105.64		O
ATOM 809	0 N	ASN	Α	344	5.215	62.425	20.192	1.00102.85		N

ATOM	8092	CA	ASN	Α	544	4.756	61.436	21.189	1.00 99.69	С
ATOM	8094	CB	ASN	A	544	3.440	60.756	20.758	1.00100.63	С
ATOM	8097	CG	ASN	A	544	2.311	61.737	20.593	1.00106.66	C
ATOM	8098	OD1	ASN	A	544	2.108	62.599	21.452	1.00113.63	0
ATOM	8099	ND2	ASN	A	544	1.587	61.647	19.474	1.00107.70	N
ATOM	8102	C	ASN	Α	544	5.730	60.329	21.403	1.00 94.33	C
ATOM	8103	0	ASN	Α	544	6.730	60.230	20.713	1.00 93.08	0
ATOM	8104	N	ILE	Α	545	5.400	59.553	22.433	1.00 91.45	N
ATOM	8106	CA	ILE	Α	545	5.741	58.160	22.629	1.00 86.98	C
ATOM	8108	CB	ILE	Α	545	4.474	57.465	23.309	1.00 86.92	C
ATOM	8110	CG1	ILE	A	545	4.672	57.482	24.841	1.00 89.02	C
ATOM	8113	CD1	ILE	A	545	3.522	56.919	25.781	1.00 91.04	C
ATOM	8117	CG2	ILE	Α	545	4.136	56.089	22.768	1.00 82.26	C
MOTA	8121	С	ILE	Α	545	6.144	57.489	21.337	1.00 86.03	C
MOTA	8122	0	ILE	A	545	5.452	57.604	20.316	1.00 88.94	0
MOTA	8123	N	THR	Α	546	7.267	56.788	21.380	1.00 82.71	N
MOTA	8125	CA	THR	A	546	7.828	56.125	20.215	1.00 80.76	C
ATOM	8127	CB	THR	A	546	9.312	56.458	20.162	1.00 79.71	C
MOTA	8129	OG1	THR	A	546	9.431	57.779	19.651	1.00 81.40	0
MOTA	8131	CG2	THR	A	546	10.108	55.583	19.160	1.00 77.72	C
MOTA	8135	C	THR	Α	546	7.623	54.612	20.203	1.00 78.40	C
MOTA		0			546	8.110	53.971	19.274	1.00 76.95	0
MOTA		N			547	6.944	54.045	21.218	1.00 77.55	N
MOTA		CA	CYS			6.542	52.622	21.189	1.00 76.32	C
MOTA		CB	CYS			7.766	51.712	21.067	1.00 73.37	C
MOTA		SG	CYS			8.789	51.650	22.513	1.00 73.09	s
ATOM		С	CYS			5.688	52.116	22.344	1.00 75.94	С
	8146	0	CYS			5.642	52.743	23.343	1.00 76.38	0
MOTA		N	THR			5.047	50.955	22.188	1.00 76.01	И
MOTA		CA	THR			4.280	50.292	23.254	1.00 76.89	C
ATOM		CB	THR			3.066	49.538	22.668	1.00 78.86	C
ATOM			THR			2.220	50.450	21.967	1.00 82.65	0
MOTA			THR			2.142	48.955	23.780	1.00 80.14	C
ATOM		C	THR			5.071	49.259	24.089	1.00 74.79	C
ATOM		0	THR			4.572	48.822	25.099	1.00 75.56	0
MOTA		N	GLY			6.289	48.875	23.701	1.00 72.66	N
MOTA		CA	GLY			6.888	47.648	24.191	1.00 70.37	C
ATOM		C	GLY GLY			7.998	47.174	23.273	1.00 69.28	C
ATOM ATOM		N	ARG			8.481 8.370	47.923 45.904	22.394 23.434	1.00 69.27 1.00 68.41	0
ATOM		CA	ARG			9.617	45.393	22.863	1.00 66.94	N C
ATOM		CB	ARG			10.066	44.051	23.463	1.00 66.83	C
ATOM		CG	ARG			9.594	43.646	24.804	1.00 67.69	C
ATOM		CD	ARG			10.696	43.065	25.661	1.00 67.99	C
ATOM		NE	ARG			10.467	43.536	27.012	1.00 68.71	И
ATOM		CZ	ARG			11.350	43.538	27.946	1.00 68.02	C
ATOM			ARG			12.548	43.056	27.689	1.00 71.35	N
ATOM			ARG			11.035	43.998	29.154	1.00 67.97	N
ATOM		C	ARG			9.593	45.083	21.401	1.00 67.18	C
ATOM		0	ARG			10.654	45.058	20.759	1.00 65.99	Ō
ATOM		N	GLY			8.434	44.712	20.882	1.00 68.91	И
MOTA		CA	GLY			8.428	44.078	19.566	1.00 69.72	C
MOTA		C	GLY			8.984	44.980	18.462	1.00 69.41	C
ATOM		0	GLY			9.184	46.175	18.685	1.00 69.05	0
MOTA		N	PRO			9.316	44.417	17.307	1.00 69.02	N
ATOM	8200	CA	PRO			9.076	45.130	16.050	1.00 70.16	С
MOTA		CB	PRO			9.704	44.221	14.988	1.00 69.01	С
MOTA	8205	CG	PRO	Α	552	9.805	42.977	15.585	1.00 68.43	С
MOTA		CD	PRO			10.065	43.179	17.085	1.00 67.57	C
MOTA		С	PRO			7.584	45.371	15.794	1.00 72.55	С
MOTA	8212	0	PRO			7.216	46.194	14.960	1.00 74.90	0
MOTA		N	ASP	Α	553	6.708	44.702	16.518	1.00 73.65	N
ATOM		CA	ASP			5.288	44.960	16.308	1.00 76.41	C
ATOM		CB	ASP			4.482	43.789	16.845	1.00 77.64	C
MOTA		CG	ASP			4.690	42.533	16.029	1.00 80.59	C
MOTA		OD1	ASP			5.877	42.294	15.647	1.00 83.78	0
MOTA	8222	OD2	ASP	A	553	3.750	41.737	15.698	1.00 84.59	0
ATOM	8223	C	ASP	A	553	4.864	46.275	16.990	1.00 77.13	C

ATOM	8224	0	ASP	Д	553	4.011	47.012	16.498	1.00 79.38	0
	8225	N			554	5.493	46.576	18.117	1.00 75.22	N
	8227	CA			554					
						5.081	47.687	18.953	1.00 75.56	C
	8229	CB			554	5.296	47.312	20.423	1.00 75.01	C
	8232	CG			554	4.457	46.113	20.854	1.00 76.66	С
	8233		ASN			3.321	45.920	20.378	1.00 79.39	0
ATOM	8234	ND2	ASN	A	554	5.013	45.299	21.759	1.00 76.10	N
ATOM	8237	С	ASN	Α	554	5.763	49.021	18.653	1.00 74.89	С
ATOM	8238	0	ASN	A	554	5.884	49.859	19.531	1.00 73.74	0
ATOM	8239	N	CYS	Α	555	6.191	49.225	17.414	1.00 74.76	N
ATOM	8241	CA			555	6.585	50.553	16.971	1.00 76.15	Ĉ
	8243	СВ			555	7.378	50.459	15.691	1.00 75.87	Ċ
	8246	SG			555	8.888	49.525	15.840	1.00 73.07	S
	8247	C			555	5.378	51.399			
	8248							16.664	1.00 79.28	C
		0			555	4.303	50.908	16.314	1.00 80.23	0
	8249	N			556	5.549	52.690	16.757	1.00 81.45	N
	8251	CA			556	4.588	53.558	16.076	1.00 86.21	С
	8253	CB	ILE	Α	556	4.217	54.775	16.994	1.00 88.59	С
	8255	CG1			556	3.285	54.332	18.145	1.00 88.42	C
ATOM	8258	CD1	ILE	Α	556	2.945	55.465	19.180	1.00 90.10	C
ATOM	8262	CG2	ILE	Α	556	3.656	55.923	16.146	1.00 91.71	C
ATOM	8266	C	ILE	Α	556	5.349	54.028	14.841	1.00 86.58	C
ATOM	8267	0	ILE	Α	556	6.353	54.729	14.990	1.00 89.16	Ō
ATOM	8268	N	GLN	Α	557	4.994	53.618	13.653	1.00 85.39	N
	8270	CA			557	5.882	53.937	12.530	1.00 85.32	Č
	8272	CB			557	6.184	55.456	12.453	1.00 87.88	C
	8275	CG			557	6.910				
	8278						55.832	11.136	1.00 89.41	C
		CD			557	6.557	57.164	10.557	1.00 91.93	C
	8279		GLN			6.459	58.148	11.270	1.00 95.30	0
	8280		GLN			6.423	57.209	9.247	1.00 92.15	N
	8283	С			557	7.229	53.165	12.420	1.00 81.67	С
ATOM	8284	0	GLN	Α	557	8.085	53.251	13.261	1.00 80.12	0
MOTA	8285	И	CYS	Α	558	7.428	52.507	11.295	1.00 81.23	N
MOTA	8287	CA	CYS	Α	558	8.641	51.768	11.012	1.00 79.48	C
ATOM	8289	CB	CYS	Α	558	8.296	50.683	10.007	1.00 79.37	С
MOTA	8292	SG	CYS	Α	558	7.573	49.169	10.702	1.00 81.19	S
MOTA	8293	С	CYS	Α	558	9.759	52.580	10.388	1.00 79.80	C
	8294	0			558	9.589	53.173	9.377	1.00 81.16	Ō
ATOM		N	ALA			10.950	52.512	10.935	1.00 78.94	N
ATOM		CA	ALA			12.079	53.313	10.421	1.00 80.38	C
MOTA		CB	ALA			13.371	53.087	11.285		
ATOM		C							1.00 78.77	C
ATOM			ALA			12.432	53.046	8.989	1.00 80.70	C
		O	ALA			12.772	53.965	8.290	1.00 83.71	0
ATOM		N	HIS			12.415	51.785	8.580	1.00 78.83	N
MOTA		CA	HIS			13.025	51.377	7.327	1.00 78.93	C
MOTA		CB	HIS			14.232	50.473	7.616	1.00 77.41	С
MOTA		CG	HIS			15.521	51.202	7.931	1.00 79.72	C
MOTA			HIS			16.068	52.180	7.112	1.00 82.70	N
MOTA	8315		HIS			17.212	52.607	7.631	1.00 84.13	C
MOTA	8317	NE2	HIS	Α	560	17.429	51.939	8.758	1.00 83.15	И
MOTA	8319	CD2	HIS	Α	560	16.395	51.050	8.962	1.00 79.11	С
MOTA	8321	С	HIS	A	560	11.932	50.680	6.503	1.00 78.66	С
MOTA	8322	0	HIS	A	560	11.189	51.365	5.825	1.00 81.48	0
MOTA	8323	N	TYR			11.771	49.354	6.575	1.00 76.45	Й
ATOM		CA	TYR			10.666	48.684	5.844	1.00 76.16	Ċ
ATOM		СВ	TYR			11.162	47.651	4.814	1.00 75.26	Ċ
ATOM		CG	TYR			12.188	48.263	3.937		
ATOM			TYR						1.00 76.43	C
						13.544	48.158	4.251	1.00 76.49	C
MOTA			TYR			14.514	48.770	3.507	1.00 77.50	C
ATOM		CZ	TYR			14.133	49.520	2.438	1.00 81.83	С
ATOM		OH	TYR			15.079	50.155	1.675	1.00 86.33	0
ATOM			TYR			12.789	49.645	2.097	1.00 82.34	C
MOTA	8340	CD2	TYR	A	561	11.824	49.028	2.861	1.00 79.04	C
MOTA	8342	С	TYR	A	561	9.733	48.040	6.820	1.00 74.68	C
ATOM	8343	0	TYR	А	561	10.052	47.969	8.013	1.00 72.79	0
ATOM		N	ILE			8.576	47.624	6.285	1.00 75.37	N
ATOM		CA	ILE			7.533	46.899	7.014	1.00 75.42	Ċ
ATOM		CB	ILE			6.207	47.710	7.246	1.00 77.81	C
						J.207	,10	, , , , , ,		

ATOM 8350	CG1	ILE .	A 562	6.473	49.235	7.482	1.00 81.60	С
ATOM 8353		ILE .			50.324	6.529	1.00 83.69	Č
ATOM 8357		ILE .			47.117	8.432	1.00 75.53	č
ATOM 8361	C		A 562		45.624	6.263	1.00 75.08	C
			A 562					
ATOM 8362	0				45.638	5.077	1.00 75.61	0
ATOM 8363	N	ASP .			44.529	7.012	1.00 73.98	N
ATOM 8365	CA	ASP .			43.193	6.553	1.00 73.94	C
ATOM 8367	CB	ASP /	A 563	8.170	42.341	6.827	1.00 72.30	С
ATOM 8370	CG	ASP I	A 563		40.945	6.226	1.00 72.50	C
ATOM 8371	OD1	ASP :	A 563	7.372	40.727	5.229	1.00 70.35	0
ATOM 8372	OD2	ASP :	A 563	8.822	40.012	6.712	1.00 72.64	0
ATOM 8373	С	ASP :	A 563	5.760	42.742	7.401	1.00 74.39	С
ATOM 8374	0	ASP I	A 563	5.902	42.627	8.612	1.00 73.65	0
ATOM 8375	N	GLY Z			42.522	6.796	1.00 75.74	N
ATOM 8377	CA	GLY :			42.251	7.590	1.00 77.02	С
ATOM 8380	C	GLY I			43.192	8.781	1.00 76.38	Č
ATOM 8381	Ö	GLY :			44.373	8.626	1.00 75.98	Ö
ATOM 8382	N	PRO I			42.679	9.966	1.00 76.69	N
ATOM 8383	CA	PRO A					1.00 78.09	C
					43.529	11.162		
ATOM 8385	CB	PRO I			42.599	12.264	1.00 77.30	С
ATOM 8388	CG	PRO A			41.225	11.789	1.00 77.15	C
ATOM 8391	CD	PRO Z			41.277	10.276	1.00 77.40	С
ATOM 8394	С	PRO J			44.083	11.612	1.00 75.13	С
ATOM 8395	0	PRO Z	A 565	4.210	45.061	12.315	1.00 76.23	0
ATOM 8396	N	HIS A	A 566	5.389	43.477	11.245	1.00 73.76	N
ATOM 8398	CA	HIS A	A 566	6.707	43.775	11.819	1.00 71.93	C
ATOM 8400	CB	HIS 2	A 566	7.618	42.556	11.660	1.00 70.47	C
ATOM 8403	CG	HIS 2	A 566		41.249	12.095	1.00 70.87	С
ATOM 8404	ND1	HIS 2	A 566	7.119	40.789	13.387	1.00 71.81	N
ATOM 8406	CE1	HIS A	A 566	6.566	39.590	13.461	1.00 74.18	С
ATOM 8408	NE2	HIS 2	A 566	6.133	39.251	12.260	1.00 73.76	N
ATOM 8410	CD2	HIS 2	A 566	6.430	40.264	11.386	1.00 72.64	С
ATOM 8412	С	HIS 2			44.879	11.078	1.00 72.22	С
ATOM 8413	0	HIS 2			44.943	9.859	1.00 74.16	Ō
ATOM 8414	N	CYS			45.687	11.769	1.00 71.03	И
ATOM 8416	CA	CYS			46.549	11.105	1.00 70.86	C
ATOM 8418	CB	CYS			47.726	11.972	1.00 71.52	C
ATOM 8421	SG	CYS			48.666	12.577	1.00 73.87	s
ATOM 8422	C	CYS I			45.832	10.962	1.00 73.87	C
ATOM 8423	0	CYS			45.332	11.937	1.00 68.08	0
ATOM 8424	И	VAL A			45.862	9.788	1.00 69.34	N
ATOM 8426	CA	VAL A			45.284	9.614	1.00 68.53	C
ATOM 8428	CB	VAL A			44.035	8.788	1.00 69.32	C
ATOM 8430		VAL A				9.226		C
					42.972		1.00 69.18	
ATOM 8434		VAL			43.396	8.907	1.00 70.17	C
ATOM 8438	C	VAL			46.205	8.951	1.00 68.70	C
ATOM 8439	0	VAL A			47.118	8.287	1.00 71.27	0
ATOM 8440	N	LYS A			45.970	9.158	1.00 67.78	И
ATOM 8442	CA	LYS Z			46.687	8.455	1.00 69.12	C
ATOM 8444	CB	LYS A			46.328	9.026	1.00 68.55	C
ATOM 8447	CG	LYS A			47.213	8.440	1.00 72.13	C
ATOM 8450	CD	LYS A	A 569	19.587	47.155	9.229	1.00 73.34	C
ATOM 8453	CE	LYS A	A 569	20.258	48.558	9.307	1.00 75.82	С
ATOM 8456	NZ	LYS 2	A 569	21.618	48.573	9.964	1.00 77.31	N
ATOM 8460	C	LYS A	A 569	15.732	46.425	6.945	1.00 70.04	С
ATOM 8461	0	LYS A	A 569	16.006	47.328	6.144	1.00 71.03	0
ATOM 8462	N	THR A			45.170	6.573	1.00 69.61	N
ATOM 8464	CA	THR A			44.774	5.179	1.00 70.80	C
ATOM 8466	СВ	THR A			43.874	4.758	1.00 70.64	Ċ
ATOM 8468		THR A			44.132	5.574	1.00 69.69	Ö
ATOM 8470		THR A			44.225	3.290	1.00 73.62	č
ATOM 8474	C	THR A			43.992	4.941	1.00 73.02	Ċ
ATOM 8474 ATOM 8475	0	THR A				5.860	1.00 71.10	0
ATOM 8475	N							И
		CYS I			43.956	3.684	1.00 72.17	
ATOM 8478	CA	CYS I			42.992	3.308	1.00 72.52	C
ATOM 8480	CB	CYS I			43.404	2.008	1.00 74.33	C
ATOM 8483	SG	CYS A			44.604	2.195	1.00 78.47	S
ATOM 8484	С	CYS I	7 2/1	13.468	41.631	3.216	1.00 71.56	С

ATOM 8485	0	CYS	A	571	14.624	41.563	2.831	1.00 71.33	(С
ATOM 8486	N			572	12.807	40.570	3.634	1.00 71.21		N
ATOM 8487	CA			572	13.365	39.208	3.601	1.00 70.85		
ATOM 8489	CB	PRO	Α	572	12.172	38.339	3.923	1.00 71.07		C
ATOM 8492	CG	PRO	Α	572	11.307	39.225	4.741	1.00 72.16		C
ATOM 8495	CD	PRO	Α	572	11.470	40.617	4.231	1.00 71.58		C
ATOM 8498	С	PRO	A	572	13.861	38.806	2.253	1.00 71.37		C
ATOM 8499	0			572	13.118	38.873	1.309	1.00 71.71		0
ATOM 8500	N	ALA	Α	573	15.091	38.332	2.192	1.00 71.59	1	N.
ATOM 8502	CA	ALA	Α	573	15.743	37.986	0.933	1.00 72.60	(C
ATOM 8504	CB	ALA	Α	573	16.655	39.103	0.532	1.00 72.49	(C
ATOM 8508	C	ALA	Α	573	16.537	36.667	1.074	1.00 72.93	(C
ATOM 8509	0	ALA	A	573	17.586	36.608	1.717	1.00 73.24	()
ATOM 8510	N	GLY	A	574	16.044	35.603	0.472	1.00 73.55	1	A.
ATOM 8512	CA	GLY	A	574	16.781	34.355	0.481	1.00 75.15	(J
ATOM 8515	C	GLY	A	574	16.810	33.712	1.853	1.00 74.56	(J
ATOM 8516	0	GLY	Α	574	17.826	33.607	2.501	1.00 74.55	()
ATOM 8517	N	VAL	A	575	15.638	33.301	2.271	1.00 74.53	ľ	Ŋ
ATOM 8519	CA	VAL	Α	575	15.376	32.861	3.612	1.00 74.16	(3
ATOM 8521	СВ	VAL	Α	575	14.468	33.930	4.276	1.00 72.51	(C
ATOM 8523	CG1	VAL	Α	575	13.634	33.376	5.319	1.00 73.47	(3
ATOM 8527	CG2	VAL	A	575	15.322	34.978	4.860	1.00 70.07	(J
ATOM 8531	С	VAL	Α	575	14.734	31.494	3.412	1.00 75.88	(2
ATOM 8532	0	VAL	Α	575	14.015	31.284	2.455	1.00 76.15	()
ATOM 8533	N	MET	Α	576	15.001	30.517	4.243	1.00 77.05	ľ	Ŋ
ATOM 8535	CA	MET	A	576	14.451	29.252	3.827	1.00 79.91	(3
ATOM 8537	CB	MET	Α	576	15.111	28.104	4.533	1.00 81.42	(2
ATOM 8540	CG	MET	Α	576	14.645	26.801	3.936	1.00 85.73	(3
ATOM 8543	SD	MET	Α	576	14.960	26.651	2.151	1.00 89.21	5	3
ATOM 8544	CE	MET	Α	576	16.879	26.184	2.371	1.00 90.57	C	7
ATOM 8548	С	MET	A	576	12.921	29.212	3.989	1.00 80.55		3
ATOM 8549	0	MET	A	576	12.415	29.721	4.978	1.00 79.42)
ATOM 8550	N	GLY	Α	577	12.218	28.602	3.012	1.00 82.68	D.	1
ATOM 8552	CA	GLY	Α	57 7	10.765	28.366	3.050	1.00 84.07	C	3
ATOM 8555	С	GLY	Α	577	10.277	26.939	2.725	1.00 87.30	C	7
ATOM 8556	0	GLY	Α	577	11.075	25.988	2.639	1.00 88.11	C)
ATOM 8557	N	GLU	Α	578	8.948	26.807	2.560	1.00 89.19	Ŋ	1
ATOM 8559	CA	GLU	Α	578	8.275	25.574	2.078	1.00 92.83		2
ATOM 8561	CB	GLU	A	578	6.821	25.929	1.572	1.00 93.63	C	3
ATOM 8564	CG			578	5.920	24.741	1.086	1.00 98.88)
ATOM 8567	CD	GLU	Α	578	5.383	24.801	-0.403	1.00100.15	C)
ATOM 8568		GLU			5.169	25.906	-0.965	1.00100.10)
ATOM 8569	OE2	GLU	Α	578	5.120	23.730	-1.024	1.00100.27	C)
ATOM 8570	С			578	9.100	24.860	0.942	1.00 94.09		;
ATOM 8571	0	GLU			9.703	25.548	0.100	1.00 92.98	C)
ATOM 8572	N	ASN	А	579	9.092	23.509	0.905	1.00 96.70	Ŋ	1
ATOM 8574	CA	ASN			9.654	22.694	-0.210	1.00 97.87		
ATOM 8576	CB	ASN			8.673	22.664	-1.431	1.00 98.97	C	
ATOM 8579	CG	ASN			8.787	21.320	-2.343	1.00103.58	C	
ATOM 8580		ASN			9.375	20.292	-1.934	1.00107.20		
ATOM 8581		ASN			8.176	21.367	-3.567	1.00102.91	N	
ATOM 8584	С	ASN			11.088	23.139	-0.599	1.00 95.88	C	
ATOM 8585	0	ASN			11.436	23.228	-1.761	1.00 95.66	C	
ATOM 8586	N	ASN			11.921	23.436	0.392	1.00 94.91	Ŋ	
ATOM 8588	CA	ASN			13.261	23.999	0.150	1.00 93.61	C	
ATOM 8590	CB	ASN			14.272	22.905	-0.271	1.00 96.16	C	
ATOM 8593	CG	ASN			15.723	23.230	0.188	1.00 96.15	C	
ATOM 8594		ASN			16.025	24.371	0.471	1.00 97.19	C	
ATOM 8595		ASN			16.599	22.237	0.248	1.00 96.25	Ŋ	
ATOM 8598	C	ASN			13.325	25.157	-0.873	1.00 91.65		
ATOM 8599	0	ASN			14.368	25.364	-1.497	1.00 91.22	C	
ATOM 8600	N	THR			12.220	25.893	-1.049	1.00 90.43	N	
ATOM 8602	CA	THR			12.204	27.090	-1.901	1.00 88.39	C	
ATOM 8604	CB	THR			10.888	27.209	-2.798	1.00 89.27	C	
ATOM 8606		THR			9.764	27.589	-1.994	1.00 89.04	C	
ATOM 8608		THR			10.466	25.857	-3.437	1.00 92.43	C	
ATOM 8612	C	THR			12.406	28.367	-1.034	1.00 84.96	C	
ATOM 8613	0	THR	A	581	11.544	28.728	-0.221	1.00 83.83	C)

ATOM	8614	N	LEU	Α	582	13.563	29.011	-1.223	1.00 82.72	N
	8616	CA			582	13.796	30.357	-0.742	1.00 79.94	C
	8618	СВ			582	15.097	30.931	-1.288	1.00 79.24	Č
	8621	CG			582	16.381	30.246	-0.893	1.00 80.18	C
	8623		LEU			17.569	31.154	-1.231	1.00 79.77	Č
	8627		LEU			16.366	29.908	0.573	1.00 80.16	C
	8631	C			582	12.669	31.327	-1.083	1.00 78.75	C
	8632	0			582	11.920				
	8633				583		31.175	-2.062	1.00 78.56	O
	8635	N CA				12.627	32.351 33.320	-0.238	1.00 77.04	N
					583	11.565		-0.172	1.00 76.73	C
	8637	CB CC1			583	10.838	33.269	1.201	1.00 76.17	C
	8639		VAL			9.880	34.449	1.387	1.00 75.25	C
	8643		VAL			10.076	31.987	1.302	1.00 78.05	C
	8647	C			583	12.202	34.664	-0.367	1.00 75.52	C
	8648	0			583	13.122	35.011	0.368	1.00 74.49	0
	8649	N	TRP			11.705	35.404	-1.363	1.00 75.92	N
	8651	CA	TRP			12.152	36.769	-1.631	1.00 74.96	C
	8653	CB	TRP			12.784	36.822	-3.004	1.00 75.84	C
	8656	CG	TRP			13.929	35.915	-3.112	1.00 75.22	C
	8657		TRP			13.892	34.622	-3.468	1.00 73.95	C
	8659		TRP			15.156	34.097	-3.430	1.00 72.84	И
MOTA			TRP			16.035	35.062	-3.034	1.00 72.12	C
	8662		TRP			15.298	36.220	-2.810	1.00 73.54	C
	8663		TRP			15.972	37.367	-2.379	1.00 73.41	С
	8665		TRP			17.340	37.308	-2.209	1.00 74.46	C
	8667		TRP			18.035	36.127	-2.434	1.00 75.07	C
	8669	CZ2	TRP	A	584	17.397	35.002	-2.850	1.00 73.68	C
ATOM	8671	C	TRP	Α	584	11.015	37.767	-1.589	1.00 74.89	C
MOTA	8672	0	TRP	A	584	9.889	37.450	-1.907	1.00 75.76	0
ATOM	8673	N	LYS	Α	585	11.332	38.992	-1.213	1.00 74.03	N
ATOM	8675	CA	LYS	Α	585	10.341	40.037	-1.097	1.00 73.90	C
ATOM	8677	СВ	LYS	Α	585	9.857	40.189	0.369	1.00 72.96	C
ATOM	8680	CG	LYS	Α	585	8.762	39.160	0.785	1.00 72.93	C
ATOM	8683	CD	LYS	Α	585	7.912	39.538	2.029	1.00 71.79	C
ATOM	8686	CE	LYS	Α	585	6.856	38.458	2.403	1.00 72.28	C
MOTA	8689	NZ	LYS	Α	585	6.373	38.409	3.829	1.00 71.42	N
MOTA	8693	С	LYS	Α	585	10.947	41.305	-1.619	1.00 73.86	C
ATOM	8694	0	LYS	Α	585	12.140	41.474	-1.545	1.00 71.84	0
ATOM	8695	N	TYR	А	586	10.104	42.174	-2.184	1.00 75.89	N
ATOM	8697	CA	TYR	Α	586	10.490	43.531	-2.525	1.00 77.16	C
ATOM	8699	СВ	$\mathbb{T}YR$	Α	586	10.230	43.846	-3.986	1.00 79.32	C
ATOM	8702	CG	TYR	Α	586	8.763	43.925	-4.384	1.00 81.59	C
ATOM	8703	CD1	TYR	Α	586	8.213	45.101	-4.860	1.00 82.49	C
ATOM	8705	CE1	TYR	\mathbf{A}	586	6.859	45.174	-5.239	1.00 86.87	C
ATOM	8707	ÇZ	TYR	Α	586	6.024	44.052	-5.144	1.00 87.16	C
ATOM	8708	OH	TYR	Α	586	4.674	44.110	-5.515	1.00 87.71	0
ATOM	8710	CE2	TYR	Α	586	6.560	42.871	-4.672	1.00 85.36	C
ATOM	8712		TYR			7.928	42.812	-4.287	1.00 82.83	C
ATOM	8714	C	TYR			9.748	44.512	-1.639	1.00 77.86	C
ATOM	8715	0	TYR	A	586	8.764	44.169	-0.970	1.00 76.82	. 0
ATOM	8716	N	ALA	Α	587	10.264	45.735	-1.642	1.00 79.52	N
ATOM	8718	CA	ALA	A	587	9.624	46.881	-1.005	1.00 81.22	C
ATOM	8720	CB	ALA	Α	587	10.664	47.718	-0.259	1.00 81.30	C
ATOM	8724	С	ALA	А	587	8.942	47.760	-2.040	1.00 83.87	С
ATOM	8725	0	ALA	A	587	9.587	48.225	-2.966	1.00 85.06	0
ATOM	8726	N	ASP			7.646	48.003	-1.873	1.00 85.42	N
ATOM	8728	CA	ASP			6.956	49.034	-2.638	1.00 87.97	C
ATOM	8730	CB	ASP			5.453	48.660	-2.823	1.00 89.10	Ċ
ATOM		CG	ASP			4.586	48.846	-1.562	1.00 88.49	Ċ
ATOM			ASP			4.972	49.551	-0.614	1.00 88.44	Ö
ATOM			ASP			3.453	48.328	-1.455	1.00 88.07	Ö
MOTA		C	ASP			7.209	50.472	-2.088	1.00 89.91	C
ATOM		0	ASP			7.973	50.687	-1.122	1.00 88.35	Ö
ATOM		N	ALA			6.571	51.439	-2.751	1.00 93.88	N
ATOM		CA	ALA			6.641	52.881	-2.458	1.00 96.73	C
ATOM		CB	ALA			5.728	53.626	-3.421	1.00100.11	C
ATOM		C	ALA			6.276	53.241	-1.005	1.00 96.86	C
ATOM		0	ALA			6.805	54.223	-0.437	1.00 98.22	0
	J, I,)			555	0.000	J-1.66J	0.43/	±.00 30.22	0

ATOM 8	748 N	GL	ΥA	590	5.363	52.441	-0.433	1.00 95.88	N
ATOM 8				590	4.993	52.493	0.975	1.00 94.90	Ċ
ATOM 8	753 C	GL	ΥA	590	6.013	51.865	1.906	1.00 91.58	Ċ
ATOM 8				590	5.808	51.912	3.111	1.00 90.28	Ō
ATOM 8				591	7.114	51.337	1.348	1.00 90.22	N
ATOM 8			SA	591	8.120	50.545	2.075	1.00 87.77	Ċ
ATOM 8				591	8.959	51.439	3.071	1.00 88.45	Č
ATOM 8				591	9.793	52.510	2.391	1.00 95.05	· č
ATOM 8		D1 HI			9.493	53.860	2.461	1.00103.48	N
ATOM 8		E1 HI			10.363	54.550	1.732	1.00106.24	C
ATOM 8		E2 HI			11.225	53.702	1.194	1.00104.71	N
ATOM 8		D2 HI			10.895	52.423	1.597	1.00 98.92	C
ATOM 8				591	7.502	49.249	2.733	1.00 84.53	Č
ATOM 8				591	7.962	48.785	3.794	1.00 82.29	Ö
ATOM 8				592	6.486	48.675	2.075	1.00 83.76	N
ATOM 8				592	5.796	47.466	2.544	1.00 81.76	C
ATOM 8				592	4.215	47.621	2.498	1.00 83.71	Č
ATOM 8		G1 VA			3.457	46.343	2.905	1.00 81.70	Č
ATOM 8		G2 VA			3.769	48.747	3.396	1.00 85.59	Č
ATOM 8				592	6.300	46.291	1.683	1.00 80.26	Ċ
ATOM 8				592	6.623	46.478	0.512	1.00 80.92	Ō
ATOM 8		CY	S A	593	6.362	45.087	2.259	1.00 77.78	N
ATOM 8				593	7.075	43.998	1.639	1.00 75.78	C
ATOM 8				593	7.847	43.219	2.689	1.00 74.24	Ċ
ATOM 8				593	9.221	44.051	3.477	1.00 73.14	S
ATOM 8			SA	593	6.122	43.052	1.000	1.00 76.03	Č
ATOM 8				593	5.141	42.647	1.620	1.00 75.39	Ō
ATOM 8				594	6.431	42.645	-0.221	1.00 76.34	И
ATOM 88	801 C	A HI	s A	594	5.581	41.688	-0.899	1.00 78.01	C
B8 MOTA	803 C	3 нт.	S A	594	4.684	42.369	-1.960	1.00 80.52	C
B8 MOTA	806 C	G HI	s A	594	3.723	43.390	-1.407	1.00 81.95	С
ATOM 88	807 N	D1 HI	S A	594	2.483	43.052	-0.907	1.00 83.85	N
B8 MOTA	809 C	El HI	S A	594	1.864	44.144	-0.490	1.00 84.93	С
88 MOTA	811 N	E2 HI	s A	594	2.657	45.179	-0.700	1.00 84.02	И
B8 MOTA	813 C	02 HI	s A	594	3.827	44.736	-1.271	1.00 81.36	С
ATOM 88	815 C	HI	s A	594	6.429	40.639	-1.555	1.00 77.43	С
ATOM 88	816 0	HI	s A	594	7.563	40.878	-1.901	1.00 76.36	0
ATOM 88	817 N	LE	U A	595	5.821	39.480	-1.748	1.00 78.64	N
ATOM 88	819 C	A LE	υA	595	6.443	38.324	-2.362	1.00 78.53	C
88 MOTA	821 CI	3 LE	UΑ	595	5.448	37.149	-2.299	1.00 79.33	С
88 MOTA	824 C	G LE	UΑ	595	5.801	35.797	-1.684	1.00 78.71	С
ATOM 88	826 CI	Ol LE	U A	595	6.898	35.909	-0.658	1.00 76.77	C
B8 MOTA	830 CI	02 LE	UΑ	595	4.553	35.115	-1.075	1.00 80.22	C
ATOM 88	834 C	LE	UΑ	595	6.829	38.606	-3.822	1.00 80.06	C
ATOM 88	835 0	LE	JΑ	595	6.092	39.243	-4.551	1.00 81.01	0
B8 MOTA	836 N	CY	S A	596	7.989	38.116	-4.238	1.00 80.39	N
ATOM 88				596	8.402	38.165	-5.626	1.00 82.14	C
ATOM 88				596	9.907	37.993	-5.745	1.00 81.09	С
ATOM 88				596	10.896	39.338	-5.042	1.00 82.20	S
88 MOTA				596	7.750	37.016	-6.381	1.00 84.23	С
ATOM 88				596	7.182	36.099	-5.758	1.00 84.81	0
ATOM 88				597	7.839	37.077	-7.726	1.00 85.98	Ŋ
ATOM 88				597	7.387	35.991	-8.602	1.00 86.82	C
ATOM 88				597	7.815		-10.084	1.00 88.03	C
ATOM 88				597	6.992		-11.096	1.00 91.55	С
ATOM 88		O1 HIS			5.695		-10.863	1.00 94.55	N
ATOM 88		E1 HIS			5.231		-11.930	1.00 94.09	C
ATOM 88		E2 HIS			6.176		-12.851	1.00 94.23	N
ATOM 88		D2 HIS			7.278		-12.366	1.00 92.74	C
ATOM 88				597	8.102	34.818	-8.053	1.00 85.24	C
ATOM 88				597	9.227	34.973	-7.601	1.00 82.66	0
ATOM 88				598	7.470	33.649	-8.079	1.00 86.55	N
ATOM 88				598	8.206	32.453	-7.664	1.00 86.49	C
ATOM 88				598	7.109	31.362	~7.590	1.00 88.23	C
ATOM 88	370 CC			598	5.750	32.113	-7.680	1.00 88.45	C C
ATOM 88	ים כדכ								1.
			A C		6.076	33.330	~8.490	1.00 87.86	
ATOM 88	376 C	PRO	A C	598 598	9.361 10.423	32.186 31.664	-8.678 -8.294	1.00 86.52 1.00 85.89	C

ATOM	8878	N	ASN	7	599	9.205	32.641	-9.925	1.00	87.20	N
	8880	CA			599	10.270		-10.943		87.60	C
	8882	CB			599	9.669		-12.365		88.64	Č
	8885	CG			599	9.382		-13.006		90.07	C
	8886		ASN			9.676		-14.178		92.33	Ô
	8887		ASN			8.799		-12.241		88.59	N
	8890	C			599	11.524		-10.788		86.52	C
	8891	Ö			599	12.405		-11.639		87.32	0
	8892	N			600	11.599	34.182	-9.712			
	8894	CA			600	12.739	35.071	-9.712 -9.439		84.92	N
	8896	CB			600	12.739	36.331	-8.714		83.07	C C
	8899	SG				11.574					
	8900	C			600 600	13.757	37.524	-9.848		86.34	S
	8901				600		34.368	-8.590		82.06	C
		0				13.838	34.583	-7.390		80.61	0
	8902	N			601	14.543	33.532	-9.240		82.20	N
	8904	CA			601	15.540	32.732	-8.580		81.19	C
	8906	CB OC1			601	16.394	31.985	-9.643		82.55	C
	8908		THR			15.581		-10.403		81.59	0
	8910		THR			17.362	31.047	-8.992		82.82	C
	8914	C	THR			16.462	33.557	-7.683		80.12	C
	8915	0	THR			17.064	32.984	-6.775		80.18	0
	8916	N			602	16.626	34.861	-7.927		79.32	N
	8918	CA			602	17.704	35.596	-7.243		78.82	C
ATOM		CB	TYR			18.764	35.995	-8.249		80.35	C
	8923	CG	TYR			19.511	34.824	-8.832		81.46	C
ATOM		CD1	TYR			19.213		-10.117		80.69	С
	8926	CE1	TYR			19.887		-10.666		81.66	С
ATOM		CZ	TYR			20.870	32.693	-9.952		82.09	С
ATOM		OH	TYR			21.510		-10.515		83.96	0
ATOM			TYR			21.197	33.123	-8.653		82.70	C
MOTA			TYR			20.518	34.187	-8.110		80.31	С
ATOM		C	TYR			17.314	36.830	-6.455		77.63	С
ATOM		0	TYR			18.181	37.605	-6.070		76.60	0
ATOM		N	GLY			16.021	36.994	-6.190		77.48	N
MOTA		CA	GLY			15.508	38.166	-5.496		76.91	C
MOTA		C	GLY			15.009	39.185	-6.473		77.91	C
ATOM		0	GLY			15.253	39.045	-7.663		78.71	0
MOTA		N	CYS			14.312	40.206	-5.982		78.21	N
ATOM		CA	CYS			13.738	41.210	-6.882		79.72	C
MOTA		CB	CYS			12.414	40.701	-7.464		80.28	C
ATOM		SG	CYS			10.973	40.882	-6.410		81.56	S
ATOM		C	CYS			13.558	42.674	-6.440		80.19	C
ATOM		0	CYS			13.418	43.047	-5.273		77.79	0
ATOM		N	THR			13.512	43.461	-7.504		83.00	Ŋ
ATOM		CA	THR			13.431	44.905	-7.548		84.81	C
MOTA		CB	THR			14.006	45.292	-8.941		87.10	C
MOTA			THR			15.372	45.651	-8.743		89.61	0
ATOM			THR			13.337	46.510	-9.660		90.11	C
MOTA		C	THR			11.986	45.326	-7.333		85.27	C
ATOM		0	THR			11.718	46.227	-6.541		85.22	0
ATOM		N	GLY			11.069	44.625	-7.999		85.73	N
MOTA		CA	GLY			9.649	44.898	-7.928		86.94	C
MOTA		C	GLY			8.783	43.657	~8.124		86.94	C
MOTA		0	GLY			9.223	42.537	-7.925		85.56	0
ATOM		N	PRO			7.534	43.854	-8.515		89.16	N
MOTA		CA	PRO			6.552	42.772	-8.584		89.64	C
ATOM		CB	PRO			5.207	43.521	-8.508		91.72	C
MOTA		CG	PRO			5.467	44.862	-9.127		93.44	C
ATOM		CD	PRO			6.939	45.149	-8.880		92.13	C
MOTA		C	PRO			6.562	41.858	-9.835		90.94	C
ATOM		0	PRO			6.927		-10.964		91.02	0
MOTA		N	GLY			6.123	40.616	-9.558		91.39	N
MOTA		CA	GLY			5.924		-10.509		92.22	C
MOTA		C	GLY			6.989		-11.589		92.72	C
ATOM		0	GLY			8.175		-11.362		91.98	0
ATOM		N	LEU			6.506		-12.807		94.71	N
MOTA		CA	LEU			7.270		-14.030		95.05	C
ATOM	9000	CB	LEU	А	609	6.311	39.435	-15.240	1.00	97.40	С

ATOM 9003	CG	LEU	7\	600	4.763	20 500	-14.971	1.00 97.53	~
									C
ATOM 9005		LEU			4.034		-16.098	1.00 99.87	C
ATOM 9009		LEU			4.038		-14.601	1.00 96.75	С
ATOM 9013	С	LEU			8.667	39.823	-14.097	1.00 94.70	С
ATOM 9014	0	LEU	Α	609	9.722	39.184	-14.227	1.00 92.65	0
ATOM 9015	N	ALA	Α	610	8.610	41.172	-13.954	1.00 96.08	N
ATOM 9017	CA	ALA	Α	610	9.684	42,152	-14.257	1.00 96.49	С
ATOM 9019	CB	ALA			9.147		-15.238	1.00 98.58	Ċ
ATOM 9023	C	ALA			10.302		-13.030	1.00 95.94	Č
ATOM 9024	0	ALA			10.840		-13.157	1.00 97.11	0
ATOM 9025	N	GLY			10.220		-11.844	1.00 94.30	N
ATOM 9027	CA	GLY			11.240		-10.848	1.00 93.78	C
ATOM 9030	C	GLY	A	611	12.516	41.826	-11.256	1.00 94.52	C
ATOM 9031	0	GLY	Α	611	13.637	42.114	-10.819	1.00 93.76	0
ATOM 9032	N	CYS	A	612	12.314	40.804	-12.087	1.00 96.55	N
ATOM 9034	CA	CYS	A	612	13.377	40.054	-12.743	1.00 97.90	С
ATOM 9036	CB	CYS			12.937		-12.854	1.00 96.30	C
ATOM 9039	SG	CYS			13.031		-11.240	1.00 90.82	S
ATOM 9040	C	CYS			13.582		-14.140	1.00103.59	c
ATOM 9041	0	CYS			12.645		-14.971	1.00103.99	0
ATOM 9042	N	PRO			14.763		-14.370	1.00108.80	N
ATOM 9043	CA	PRO			15.182		-15.726	1.00114.87	С
ATOM 9045	CB	PRO	A	613	15.737	43.030	-15.521	1.00114.53	C
ATOM 9048	CG	PRO	Α	613	16.295	42.984	-14.088	1.00110.83	C
ATOM 9051	CD	PRO	Α	613	15.772	41.685	-13.378	1.00107.45	С
ATOM 9054	C	PRO	Α	613	16.262	40.618	-16.273	1.00122.10	С
ATOM 9055	0	PRO	Α	613	16.937		-15.470	1.00120.24	0
ATOM 9056	N	THR			16.391		-17.621	1.00 47.89	N
ATOM 9058	CA	THR			17.198		-18.467	1.00 53.92	C
ATOM 9060		THR						1.00 55.51	C
	CB				18.247		-17.659		
ATOM 9062	OG1				19.340		-17.217	1.00 58.77	0
ATOM 9064	CG2	THR			18.907		-18.539	1.00 57.00	С
ATOM 9068	С	\mathtt{THR}	A	614	16.172	38.798	-19.222	1.00 56.93	C
ATOM 9069	0	THR	Α	614	15.663	39.166	-20.337	1.00 59.17	0
ATOM 9070	TXO	THR	Α	614	15.847	37.720	-18.669	1.00 59.96	0
ATOM 9071	N	ASP	С	1	33.389	65.342	66.616	1.00 67.77	И
ATOM 9073	CA	ASP	С	1	33.591	64.060	67.391	1.00 63.04	C
ATOM 9075	CB	ASP		1	34.960	64.034	68.124	1.00 62.38	C
ATOM 9078	CG	ASP		1	36.160	63.729	67.215	1.00 63.30	Č
ATOM 9079		ASP		1	36.329	62.559	66.749	1.00 62.63	Ö
ATOM 9080				1					o
AIUM JUOU	0.03	A CD	$\overline{}$		37.047 32.479	64.606 63.876	67.012	1.00 67.29	C
		ASP					68.450		
ATOM 9081	C	ASP	С	1			co occ	1.00 60.60	
ATOM 9081 ATOM 9082	C 0	ASP ASP	C	1	31.963	64.812	68.966	1.00 63.19	0
ATOM 9081 ATOM 9082 ATOM 9085	C	ASP ASP ILE	C C	1 2	31.963 32.190	64.812 62.647	68.811		O N
ATOM 9081 ATOM 9082	C 0	ASP ASP ILE ILE	C C C	1 2 2	31.963	64.812 62.647 62.338		1.00 63.19	O N C
ATOM 9081 ATOM 9082 ATOM 9085	C O N	ASP ASP ILE	C C C	1 2	31.963 32.190	64.812 62.647	68.811	1.00 63.19 1.00 56.23	O N
ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087	C O N CA CB	ASP ASP ILE ILE	$\begin{smallmatrix} C & C & C & C \\ C & C & C & C \\ \end{smallmatrix}$	1 2 2	31.963 32.190 31.119	64.812 62.647 62.338	68.811 69.720	1.00 63.19 1.00 56.23 1.00 54.21	O N C
ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9089	C O N CA CB CG1	ASP ASP ILE ILE ILE ILE	000000	1 2 2 2 2	31.963 32.190 31.119 30.653	64.812 62.647 62.338 60.829 60.345	68.811 69.720 69.431 70.377	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 50.81	O N C C C
ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9089 ATOM 9091 ATOM 9094	C O N CA CB CG1 CD1	ASP ILE ILE ILE ILE ILE	0000000	1 2 2 2 2 2 2	31.963 32.190 31.119 30.653 29.523 28.466	64.812 62.647 62.338 60.829 60.345 59.526	68.811 69.720 69.431 70.377 69.644	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 50.81 1.00 49.41	O N C C C
ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9089 ATOM 9091 ATOM 9094 ATOM 9098	C N CA CB CG1 CD1 CG2	ASP ILE ILE ILE ILE ILE ILE	00000000	1 2 2 2 2 2 2 2	31.963 32.190 31.119 30.653 29.523 28.466 31.758	64.812 62.647 62.338 60.829 60.345 59.526 59.838	68.811 69.720 69.431 70.377 69.644 69.497	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 50.81 1.00 49.41 1.00 46.09	O N C C C C
ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9089 ATOM 9091 ATOM 9094 ATOM 9098 ATOM 9102	C O N CA CB CG1 CD1 CG2 C	ASP ASP ILE ILE ILE ILE ILE ILE	$\begin{smallmatrix} C & C & C & C & C & C & C \\ C & C & C &$	1 2 2 2 2 2 2 2 2	31.963 32.190 31.119 30.653 29.523 28.466 31.758 31.538	64.812 62.647 62.338 60.829 60.345 59.526 59.838 62.546	68.811 69.720 69.431 70.377 69.644 69.497 71.167	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 50.81 1.00 49.41 1.00 46.09 1.00 52.71	O N C C C C C
ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9089 ATOM 9091 ATOM 9094 ATOM 9098 ATOM 9102 ATOM 9103	C O N CA CB CG1 CD1 CG2 C	ASP ILE ILE ILE ILE ILE ILE ILE ILE	$\begin{smallmatrix} C & C & C & C & C & C & C & C & C & C $	1 2 2 2 2 2 2 2 2 2 2	31.963 32.190 31.119 30.653 29.523 28.466 31.758 31.538 32.470	64.812 62.647 62.338 60.829 60.345 59.526 59.838 62.546 61.928	68.811 69.720 69.431 70.377 69.644 69.497 71.167 71.639	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 50.81 1.00 49.41 1.00 46.09 1.00 52.71 1.00 50.84	O N C C C C C
ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9089 ATOM 9091 ATOM 9094 ATOM 9098 ATOM 9102 ATOM 9103 ATOM 9104	C O N CA CB CG1 CD1 CG2 C O N	ASP ILE ILE ILE ILE ILE ILE ILE ILE ILE	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 2 2 2 2 2 2 2 2 2 2 2 3	31.963 32.190 31.119 30.653 29.523 28.466 31.758 31.538 32.470 30.821	64.812 62.647 62.338 60.829 60.345 59.526 59.838 62.546 61.928 63.383	68.811 69.720 69.431 70.377 69.644 69.497 71.167 71.639 71.886	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 50.81 1.00 49.41 1.00 46.09 1.00 52.71 1.00 50.84 1.00 54.32	O N C C C C C O N
ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9089 ATOM 9091 ATOM 9094 ATOM 9098 ATOM 9102 ATOM 9103 ATOM 9104 ATOM 9106	C O N CA CB CG1 CD1 CG2 C O N CA	ASP ILE	$\circ\circ\circ\circ\circ\circ\circ\circ\circ\circ\circ$	1 2 2 2 2 2 2 2 2 2 2 3 3 3	31.963 32.190 31.119 30.653 29.523 28.466 31.758 31.538 32.470 30.821 31.006	64.812 62.647 62.338 60.829 60.345 59.526 59.838 62.546 61.928 63.383 63.509	68.811 69.720 69.431 70.377 69.644 69.497 71.167 71.639 71.886 73.329	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 50.81 1.00 49.41 1.00 46.09 1.00 52.71 1.00 50.84 1.00 54.32 1.00 53.38	O N C C C C C N C
ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9089 ATOM 9091 ATOM 9094 ATOM 9098 ATOM 9102 ATOM 9103 ATOM 9104 ATOM 9106 ATOM 9108	C O N CA CB CG1 CG2 C O N CA CB	ASP ILE	$\circ \circ $	1 2 2 2 2 2 2 2 2 2 2 3 3 3	31.963 32.190 31.119 30.653 29.523 28.466 31.758 31.538 32.470 30.821 31.006 30.547	64.812 62.647 62.338 60.829 60.345 59.526 59.838 62.546 61.928 63.383 63.509 64.886	68.811 69.720 69.431 70.377 69.644 69.497 71.167 71.639 71.886 73.329 73.785	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 50.81 1.00 49.41 1.00 46.09 1.00 52.71 1.00 50.84 1.00 54.32 1.00 53.38 1.00 57.50	O N C C C C O N C
ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9091 ATOM 9094 ATOM 9098 ATOM 9103 ATOM 9103 ATOM 9104 ATOM 9106 ATOM 9108 ATOM 9108 ATOM 9108 ATOM 9108	C O N CA CB1 CG2 C O N CA CB CC	ASP ASP ILE	$\circ \circ $	1 2 2 2 2 2 2 2 2 2 2 3 3 3 3	31.963 32.190 31.119 30.653 29.523 28.466 31.758 31.538 32.470 30.821 31.006	64.812 62.647 62.338 60.829 60.345 59.526 59.838 62.546 61.928 63.383 63.509	68.811 69.720 69.431 70.377 69.644 69.497 71.167 71.639 71.886 73.329 73.785 73.123	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 50.81 1.00 46.09 1.00 52.71 1.00 50.84 1.00 54.32 1.00 53.38 1.00 57.50 1.00 61.79	0 N C C C C C C C C C C
ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9089 ATOM 9091 ATOM 9094 ATOM 9098 ATOM 9102 ATOM 9103 ATOM 9104 ATOM 9106 ATOM 9108	C O N CA CG1 CG2 C O N CA CB CG CD1	ASP ASP ILE ILE ILE ILE ILE ILE ILE ILE ILE LEU LEU LEU LEU LEU	$\circ \circ $	1 2 2 2 2 2 2 2 2 2 2 3 3 3	31.963 32.190 31.119 30.653 29.523 28.466 31.758 31.538 32.470 30.821 31.006 30.547	64.812 62.647 62.338 60.829 60.345 59.526 59.838 62.546 61.928 63.383 63.509 64.886	68.811 69.720 69.431 70.377 69.644 69.497 71.167 71.639 71.886 73.329 73.785	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 50.81 1.00 49.41 1.00 52.71 1.00 50.84 1.00 54.32 1.00 53.38 1.00 57.50 1.00 61.79 1.00 66.05	O N C C C C O N C
ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9091 ATOM 9094 ATOM 9098 ATOM 9103 ATOM 9103 ATOM 9104 ATOM 9106 ATOM 9108 ATOM 9108 ATOM 9108 ATOM 9108	C O N CA CG1 CG2 C O N CA CB CG CD1	ASP ASP ILE	$\circ \circ $	1 2 2 2 2 2 2 2 2 2 2 3 3 3 3	31.963 32.190 31.119 30.653 29.523 28.466 31.758 31.538 32.470 30.821 31.006 30.547 31.316	64.812 62.647 62.338 60.829 60.345 59.526 59.838 62.546 61.928 63.383 63.509 64.886 66.005	68.811 69.720 69.431 70.377 69.644 69.497 71.167 71.639 71.886 73.329 73.785 73.123	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 50.81 1.00 49.41 1.00 52.71 1.00 50.84 1.00 54.32 1.00 53.38 1.00 57.50 1.00 61.79 1.00 66.05	0 N C C C C C C C C C C
ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9091 ATOM 9094 ATOM 9098 ATOM 9102 ATOM 9103 ATOM 9104 ATOM 9106 ATOM 9106 ATOM 9108 ATOM 9111 ATOM 9111 ATOM 9113 ATOM 9117	C O N CA CG1 CG2 C O N CA CB CG CD1	ASP ASP ILE ILE ILE ILE ILE ILE ILE LEU LEU LEU LEU LEU LEU LEU	$\circ \circ $	1 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3	31.963 32.190 31.119 30.653 29.523 28.466 31.758 31.538 32.470 30.821 31.006 30.547 31.316 31.128 32.806	64.812 62.647 62.338 60.829 60.345 59.526 59.838 62.546 61.928 63.383 63.509 64.886 66.005 67.318 65.586	68.811 69.720 69.431 70.377 69.644 69.497 71.167 71.886 73.329 73.785 73.123 73.861 73.107	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 50.81 1.00 46.09 1.00 52.71 1.00 50.84 1.00 54.32 1.00 53.38 1.00 57.50 1.00 61.79	0 N C C C C C C C C C C C C
ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9089 ATOM 9091 ATOM 9094 ATOM 9102 ATOM 9103 ATOM 9104 ATOM 9106 ATOM 9106 ATOM 9108 ATOM 9111 ATOM 9111 ATOM 9113 ATOM 9117 ATOM 9121	C O N CA CG2 C O N CA CB CG CD1 CCD2	ASP ASP ILE	$\circ \circ $	1 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3	31.963 32.190 31.119 30.653 29.523 28.466 31.758 31.538 32.470 30.821 31.006 30.547 31.316 31.128 32.806 30.206	64.812 62.647 62.338 60.829 60.345 59.526 59.838 62.546 61.928 63.383 63.509 64.886 66.005 67.318 65.586 62.515	68.811 69.720 69.431 70.377 69.644 69.497 71.167 71.886 73.329 73.785 73.123 73.861 73.107 74.091	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 50.81 1.00 49.41 1.00 52.71 1.00 50.84 1.00 54.32 1.00 53.38 1.00 57.50 1.00 66.05 1.00 61.67	0 N C C C C C C C C C C C C C
ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9089 ATOM 9091 ATOM 9094 ATOM 9102 ATOM 9103 ATOM 9104 ATOM 9106 ATOM 9106 ATOM 9108 ATOM 9111 ATOM 9111 ATOM 9113 ATOM 9117 ATOM 9121 ATOM 9121 ATOM 9122	C O N CA CB CG1 CCA CB CCA CCA CCA CCA CCA CCA CCA CCA	ASP ASP ILE	$\circ \circ $	1 2 2 2 2 2 3 3 3 3 3 3 3 3 3	31.963 32.190 31.119 30.653 29.523 28.466 31.758 31.538 32.470 30.821 31.006 30.547 31.316 31.128 32.806 30.206 29.205	64.812 62.647 62.338 60.829 60.345 59.526 59.838 62.546 61.928 63.383 63.509 64.886 66.005 67.318 65.586 62.515 62.077	68.811 69.720 69.431 70.377 69.644 69.497 71.167 71.886 73.329 73.785 73.123 73.861 73.107 74.091 73.632	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 49.41 1.00 46.09 1.00 52.71 1.00 50.84 1.00 54.32 1.00 53.38 1.00 57.50 1.00 66.05 1.00 61.67 1.00 50.57 1.00 50.19	0 N C C C C C C C C C C C C
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ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9089 ATOM 9091 ATOM 9094 ATOM 9102 ATOM 9103 ATOM 9104 ATOM 9106 ATOM 9106 ATOM 9111 ATOM 9111 ATOM 9111 ATOM 9111 ATOM 9111 ATOM 9111 ATOM 9112 ATOM 9121 ATOM 9122 ATOM 9123 ATOM 9125 ATOM 9127	C O N CA CB CG1 CD2 C O N CA CD2 C C O N CA CD2 C C C C C C C C C C C C C C C C C C	ASP ASP ILE	$\circ \circ $	1 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 4 4 4 4	31.963 32.190 31.119 30.653 29.523 28.466 31.758 31.538 32.470 30.821 31.006 30.547 31.316 31.128 32.806 30.206 29.205 30.655 29.977 30.661	64.812 62.647 62.338 60.829 60.345 59.526 59.838 62.546 61.928 63.383 63.509 64.886 66.005 67.318 65.586 62.515 62.077 62.200 61.272 59.899	68.811 69.720 69.431 70.377 69.644 69.497 71.167 71.886 73.329 73.785 73.123 73.861 73.107 74.091 73.632 75.294 76.210 76.270	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 49.41 1.00 46.09 1.00 52.71 1.00 50.84 1.00 54.32 1.00 53.38 1.00 57.50 1.00 66.05 1.00 66.05 1.00 65.57 1.00 50.19 1.00 49.48 1.00 47.62 1.00 44.26	0 N C C C C C C C C C C C C C C C C C C C
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ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9089 ATOM 9091 ATOM 9094 ATOM 9103 ATOM 9104 ATOM 9104 ATOM 9106 ATOM 9108 ATOM 9111 ATOM 9111 ATOM 9111 ATOM 9111 ATOM 9111 ATOM 9121 ATOM 9121 ATOM 9122 ATOM 9123 ATOM 9125 ATOM 9125 ATOM 9127 ATOM 9127 ATOM 9127 ATOM 9130 ATOM 9131	C O N CA CB CG CD1 CD2 C O N CA CB CD2 C C O N CA CB CD2 C C O N CA CB CCD CD2 C CD2 C CD2 C CD2 CD2 CD2 CD2 C	ASP ASP ILE ILE ILE ILE ILE ILE ILE ILE LEU LEU LEU LEU LEU LEU LEU LEU LEU L	$\circ \circ $	1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 4 4 4 4	31.963 32.190 31.119 30.653 29.523 28.466 31.758 31.538 32.470 30.821 31.006 30.547 31.316 31.128 32.806 30.206 29.205 30.655 29.977 30.661 30.556 31.192 29.161	64.812 62.647 62.338 60.829 60.345 59.526 59.838 62.546 61.928 63.383 63.509 64.886 66.005 67.318 65.586 62.515 62.077 62.200 61.272 59.899 58.903 57.536 58.642	68.811 69.720 69.431 70.377 69.644 69.497 71.167 71.639 71.886 73.329 73.785 73.123 73.861 73.107 74.091 73.632 75.294 76.210 76.270 75.095 75.461 74.668	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 49.41 1.00 46.09 1.00 52.71 1.00 50.84 1.00 54.32 1.00 53.38 1.00 57.50 1.00 61.79 1.00 66.05 1.00 61.67 1.00 50.57 1.00 50.19 1.00 49.48 1.00 47.62 1.00 42.54 1.00 42.54 1.00 42.27 1.00 41.09	O N C C C C C C C C C C C C C C C C C C
ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9089 ATOM 9091 ATOM 9094 ATOM 9102 ATOM 9103 ATOM 9104 ATOM 9106 ATOM 9108 ATOM 9111 ATOM 9111 ATOM 9111 ATOM 9117 ATOM 9121 ATOM 9122 ATOM 9122 ATOM 9123 ATOM 9125 ATOM 9127 ATOM 9130 ATOM 9130	C O N CA CB CG1 CD2 C O N CA CB CCD1 CD2 C C CD2 C C CD1 CD2 C C CD1 CD2 C C C CD1 CD2 C CD1 CD2 C CD1 CD2 C CD1 CD2 CD2 CD1 CD2 CD2 CD2 CD1 CD2	ASP ASP ILE ILE ILE ILE ILE ILE ILE LEU LEU LEU LEU LEU LEU LEU LEU LEU L	$\circ \circ $	1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 4 4 4 4	31.963 32.190 31.119 30.653 29.523 28.466 31.758 31.538 32.470 30.821 31.006 30.547 31.316 31.128 32.806 30.206 29.205 30.655 29.977 30.661 30.556 31.192	64.812 62.647 62.338 60.829 60.345 59.526 59.838 62.546 61.938 63.509 64.886 66.005 67.318 65.586 62.515 62.077 62.200 61.272 59.899 58.903 57.536 58.642 61.939	68.811 69.720 69.431 70.377 69.644 69.497 71.167 71.639 71.886 73.329 73.785 73.123 73.861 73.632 75.294 76.210 76.270 75.095 75.461 74.668 77.564	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 49.41 1.00 46.09 1.00 52.71 1.00 50.84 1.00 54.32 1.00 53.38 1.00 57.50 1.00 61.79 1.00 66.05 1.00 61.67 1.00 50.57 1.00 50.19 1.00 49.48 1.00 47.62 1.00 42.54 1.00 42.54	0 N C C C C C C C C C C C C C C C C C C
ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9089 ATOM 9091 ATOM 9094 ATOM 9103 ATOM 9104 ATOM 9104 ATOM 9106 ATOM 9108 ATOM 9111 ATOM 9111 ATOM 9111 ATOM 9111 ATOM 9111 ATOM 9121 ATOM 9121 ATOM 9122 ATOM 9123 ATOM 9125 ATOM 9125 ATOM 9127 ATOM 9127 ATOM 9127 ATOM 9130 ATOM 9131	C O N CA CB CG CD1 CD2 C O N CA CB CD2 C C O N CA CB CD2 C C O N CA CB CCD CD2 C CD2 C CD2 C CD2 CD2 CD2 CD2 C	ASP ASP ILE ILE ILE ILE ILE ILE ILE ILE LEU LEU LEU LEU LEU LEU LEU LEU LEU L	$\circ \circ $	1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 4 4 4 4	31.963 32.190 31.119 30.653 29.523 28.466 31.758 31.538 32.470 30.821 31.006 30.547 31.316 31.128 32.806 30.206 29.205 30.655 29.977 30.661 30.556 31.192 29.161	64.812 62.647 62.338 60.829 60.345 59.526 59.838 62.546 61.928 63.383 63.509 64.886 66.005 67.318 65.586 62.515 62.077 62.200 61.272 59.899 58.903 57.536 58.642	68.811 69.720 69.431 70.377 69.644 69.497 71.167 71.639 71.886 73.329 73.785 73.123 73.861 73.107 74.091 73.632 75.294 76.210 76.270 75.095 75.461 74.668	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 49.41 1.00 46.09 1.00 52.71 1.00 50.84 1.00 54.32 1.00 53.38 1.00 57.50 1.00 61.79 1.00 66.05 1.00 61.67 1.00 50.57 1.00 50.19 1.00 49.48 1.00 47.62 1.00 42.54 1.00 42.54 1.00 42.27 1.00 41.09	O N C C C C C C C C C C C C C C C C C C
ATOM 9081 ATOM 9082 ATOM 9085 ATOM 9087 ATOM 9089 ATOM 9091 ATOM 9094 ATOM 9098 ATOM 9103 ATOM 9104 ATOM 9106 ATOM 9106 ATOM 9111 ATOM 9111 ATOM 9111 ATOM 9111 ATOM 9111 ATOM 9121 ATOM 9121 ATOM 9122 ATOM 9123 ATOM 9125 ATOM 9125 ATOM 9125 ATOM 9127 ATOM 9127 ATOM 9121 ATOM 9130 ATOM 91316 ATOM 9136	C O N CA CB CG1 CD2 C O N CA CB CD1 CD2 C C C C C C C C C C C C C C C C C C	ASP ASP ILE ILE ILE ILE ILE ILE ILE LEU LEU LEU LEU LEU LEU LEU LEU LEU L	$\circ \circ $	1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 4 4 4 4	31.963 32.190 31.119 30.653 29.523 28.466 31.758 31.538 32.470 30.821 31.006 30.547 31.316 31.128 32.806 30.206 29.205 30.655 29.977 30.661 30.556 31.192 29.161 30.102	64.812 62.647 62.338 60.829 60.345 59.526 59.838 62.546 61.938 63.509 64.886 66.005 67.318 65.586 62.515 62.077 62.200 61.272 59.899 58.903 57.536 58.642 61.939	68.811 69.720 69.431 70.377 69.644 69.497 71.167 71.639 71.886 73.329 73.785 73.123 73.861 73.632 75.294 76.210 76.270 75.095 75.461 74.668 77.564	1.00 63.19 1.00 56.23 1.00 54.21 1.00 51.58 1.00 49.41 1.00 46.09 1.00 52.71 1.00 50.84 1.00 54.32 1.00 53.38 1.00 57.50 1.00 61.79 1.00 66.05 1.00 61.67 1.00 50.57 1.00 50.19 1.00 49.48 1.00 47.62 1.00 42.54 1.00 42.54 1.00 42.27 1.00 49.23	O N C C C C C C C C C C C C C C C C C C

ATOM 9144	CA	THR	С	5	28.925	63.052	79.340	1.00 51.09	С
ATOM 9146	CB	THR		5	28.023	64.197	78.914	1.00 54.47	C
ATOM 9148		THR		5	28.669	64.889	77.847	1.00 54.99	Ö
	CG2	THR		5	27.841	65.257	80.010	1.00 58.10	C
ATOM 9150									Ċ
ATOM 9154	C	THR		5	28.318	62.222	80.455	1.00 50.26	
ATOM 9155	0	THR		5	27.173	61.791	80.329	1.00 52.74	0
ATOM 9156	N	GLN	С	6	29.054	61.916	81.509	1.00 48.92	И
ATOM 9158	CA	GLN	С	6	28.477	61.131	82.612	1.00 48.41	С
ATOM 9160	CB	GLN	С	6	29.420	60.029	83.106	1.00 46.13	С
ATOM 9163	CG	GLN	С	6	29.841	58.951	82.032	1.00 46.01	С
ATOM 9166	CD	GLN		6	30.748	57.811	82.605	1.00 42.83	С
ATOM 9167		GLN		6	30.341	57.108	83.506	1.00 43.11	0
ATOM 9168	NE2	GLN		6	31.931	57.649	82.063	1.00 39.15	И
							83.776	1.00 51.15	C
ATOM 9171	C	GLN		6	28.086	62.057			
ATOM 9172	0	GLN		6	28.575	63.185	83.915	1.00 51.19	0
ATOM 9173	N	SER		7	27.195	61.530	84.618	1.00 52.05	N
ATOM 9175	$^{\rm CA}$	SER	С	7	26.399	62.344	85.524	1.00 55.11	C
ATOM 9177	CB	SER	С	7	25.240	62.929	84.689	1.00 57.59	С
ATOM 9180	OG	SER	С	7	25.571	64.267	84.306	1.00 63.19	0
ATOM 9182	С	SER	С	7	25.843	61.474	86.652	1.00 54.25	С
ATOM 9183	Ó	SER		7	25.344	60.419	86.357	1.00 53.75	0
ATOM 9184	N	PRO		8	25.896	61.871	87.925	1.00 55.03	N
								1.00 56.11	C
ATOM 9185	CA	PRO		8	26.657	63.025	88.411		
ATOM 9187	CB	PRO		8	26.204	63.135	89.865	1.00 57.98	C
ATOM 9190	CG	PRO		8	25.667	61.770	90.233	1.00 56.40	C
ATOM 9193	CD	PRO	С	8	25.101	61.220	88.994	1.00 55.40	C
ATOM 9196	C	PRO	С	8	28.134	62.756	88.412	1.00 54.47	С
ATOM 9197	0	PRO	С	8	28.565	61.631	88.075	1.00 52.22	0
ATOM 9198	N	VAL	С	9	28.908	63.726	88.859	1.00 55.53	И
ATOM 9200	CA	VAL	Ċ	9	30.311	63.456	89.017	1.00 55.24	C
ATOM 9202	CB	VAL		9	31.120	64.738	89.253	1.00 58.63	C
		VAL		9	32.588	64.416	89.781	1.00 58.03	Č
ATOM 9204									C
ATOM 9208		VAL		9	31.166	65.580	87.925	1.00 60.37	
ATOM 9212	C	VAL		9	30.574	62.469	90.150	1.00 54.36	C
ATOM 9213	0	VAL		9	31.400	61.558	89.968	1.00 53.35	0
ATOM 9214	N	ILE	С	10	29.927	62.686	91.302	1.00 55.71	N
ATOM 9216	CA	$_{ m ILE}$	С	10	29.879	61.722	92.418	1.00 55.79	C
ATOM 9218	CB	ILE	С	10	30.485	62.359	93.690	1.00 57.92	C
ATOM 9220	CG1	ILE	С	10	32.000	62.430	93.602	1.00 59.27	C
ATOM 9223	CD1			10	32.638	63.164	94.791	1.00 62.22	C
ATOM 9227	CG2			10	30.200	61.541	94.922	1.00 58.67	C
ATOM 9231	C	ILE		10	28.393	61.258	92.677	1.00 57.07	C
								1.00 60.01	Ö
ATOM 9232	0	ILE		10	27.464	62.062	92.664		
ATOM 9233	N	LEU		11	28.137	59.983	92.929	1.00 55.55	N
ATOM 9235	CA	LEU		11	26.769	59.588	93.190	1.00 56.88	С
ATOM 9237	CB	LEU	С	11	26.419	58.508	92.202	1.00 54.80	C
ATOM 9240	CG	LEU	С	11	25.025	57.907	92.195	1.00 55.67	C
ATOM 9242	CD1	LEU	С	11	24.004	58.957	92.115	1.00 58.93	C
ATOM 9246	CD2	LEU	С	11	24.914	56.991	90.986	1.00 54.73	С
ATOM 9250	С	LEU		11	26.688	59.068	94.620	1.00 59.06	С
ATOM 9251	Ō	LEU		11	27.287	58.041	94.901	1.00 59.11	0
ATOM 9252	N	SER		12	26.023	59.782	95.533	1.00 61.71	Ŋ
					26.005	59.382	96.956	1.00 63.27	Ċ
ATOM 9254	CA	SER		12					
ATOM 9256	СВ	SER		12	26.214	60.556	97.941	1.00 65.33	C
ATOM 9259	OG	SER		12	27.431	61.153	97.699	1.00 63.03	0
ATOM 9261	С	SER	С	12	24.681	58.744	97.285	1.00 64.64	C
ATOM 9262	0	SER	С	12	23.656	59.375	97.191	1.00 66.78	0
ATOM 9263	И	VAL	Ç	13	24.750	57.540	97.814	1.00 64.40	Ŋ
ATOM 9265	CA	VAL	С	13	23.657	56.618	97.810	1.00 65.81	С
ATOM 9267	CB	VAL		13	23.891	55.757	96.586	1.00 63.63	С
ATOM 9269		VAL		13	23.223	54.454	96.715	1.00 66.53	C
ATOM 9209 ATOM 9273		VAL		13	23.399	56.484	95.355	1.00 64.60	Č
									C
ATOM 9277	C	VAL		13	23.712	55.741		1.00 66.60	
ATOM 9278	0	VAL		13	24.785	55.268	99.380	1.00 64.51	0
ATOM 9279	N	SER		14	22.579			1.00 69.64	Ŋ
ATOM 9281	CA	SER	С	14	22.601	54.560	100.836	1.00 72.09	C
ATOM 9283	CB	SER	С	14	21.478	54.804	101.839	1.00 76.76	C
ATOM 9286	OG	SER		14	20.810	56.030	101.609	1.00 79.16	0

ATOM	9288	С	SER	C	14	22.599	53.119	100.356	1.00	70.71	C
ATOM	0290	0	SER	C	14	22.149	52.842	99.275	1 00	68.37	0
ATOM	9290	N	PRO	С	15	23.152	52.211	101.149	1.00	72.08	N
ATOM	9291	CA	PRO	C	15	23.353	50.835	100.735	1.00	71.76	C
ATOM	9293	CB	PRO	C	15	24.297	50.294	101.808	1.00	73.08	С
ATOM	9296	CG	PRO	С	15	23.978	51.010	102.986	1.00	76.10	С
					15			102.530	1 00	74.92	С
ATOM		$^{\rm CD}$	PRO			23.611					
MOTA	9302	С	PRO	C	15	22.056	50.082	100.765	1.00	75.00	С
ATOM	0303	0	PRO	C	15	21.340	50 172	101.721	1 00	79.23	0
ATOM	9304	N	GLY	С	16	21.755	49.355	99.712	1.00	74.43	N
MOTA	9306	CA	GLY	C	16	20.459	48.743	99.583	1 00	77.95	C
MOTA	9309	С	GLY	C	16	19.586	49.408	98.540	T.00	77.45	С
ATOM	9310	0	GLY	C	16	18.688	48.741	98.034	1.00	80.57	0
ATOM							50.673	98.194	1 00	75.10	N
ATOM	9311	N	GLU		17	19.809					
MOTA	9313	CA	GLU	С	17	18.992	51.329	97.158	1.00	74.75	С
ATOM	9315	CB	GLU	C	17	19.245	52.794	97.143	1.00	73.81	C
MOTA	93T8	CG	GLU	C	17	18.823	53.497	98.389	T.00	79.22	C
ATOM	9321	CD	GLU	C	17	18.808	54.995	98.145	1.00	79.79	C
MOTA	9322	OFT	GLU	C	17	19.851	55.616	97.710		69.50	0
ATOM	9323	OE2	GLU	С	17	17.681	55.505	98.369	1.00	88.18	0
MOTA	0321	С	GLU	C	17	19.231	50.930	95.713	1 00	71.55	C
ATOM	9325	0	GLU	С	17	20.338	50.462	95.351	1.00	66.99	0
ATOM	9326	N	ALA	C	18	18.177	51.167	94.895	1.00	72.93	N
ATOM	9328	CA	ALA	C	18	18.342	51.297	93.452	T.00	69.72	С
ATOM	9330	CB	ALA	C	18	17.040	51.182	92.640	1.00	70.80	С
						19.087	52.642	93.212	1 00	67.33	С
ATOM		С	ALA		18						
MOTA	9335	0	ALA	Ç	18	18.731	53.667	93.755	1.00	69.28	0
ATOM	9336	И	VAL	С	19	20.151	52.542	92.424	1 00	63.49	N
MOTA	9338	CA	VAL	C	19	21.005	53.594	91.948	1.00	61.76	С
ATOM	9340	CB	VAL	C	19	22.441	53,202	92.367	1.00	59.76	C
										57.51	С
ATOM			VAL		19	23.474	54.131	91.797			
ATOM	9346	CG2	VAL	Ç	19	22.521	53.203	93.815	1.00	62.73	C
MOTA	9350	C	VAL	C	19	21.059	53.596	90.416	1 00	59.34	С
ATOM	9351	0	VAL	C	19	21.188	52.538	89.832	1.00	59.40	0
MOTA	9352	N	SER	C	20	21.053	54.764	89.776	1.00	57.96	И
							54.860	88.333		55.03	С
ATOM		CA	SER		20	21.205					
ATOM	9356	CB	SER	C	20	20.027	55.545	87.683	1.00	57.01	C
ATOM	9359	OG	SER	C	20	18.851	54.897	88.037	1 00	61.60	0
ATOM	9361	C	SER	C	20	22.298	55.767	88.035	1.00	53.24	С
ATOM	9362	0	SER	C	20	22.254	56.879	88.497	1.00	54.65	0
								87.212		50.84	И
ATOM	9303	N	PHE		21	23.257	55.326				
MOTA	9365	$^{\rm CA}$	$_{\mathrm{PHE}}$	C	21	24.247	56.198	86.595	1.00	48.38	C
ATOM	9367	CB	PHE	C	21	25.592	55.519	86.453	1 00	46.09	С
MOTA	9370	CG	PHE	С	21	26.047	54.812	87.647	1.00	47.07	С
ATOM	9371	CD1	PHE	C	21	25.631	53.517	87.880	1.00	50.09	С
						26.041	52.843			50.03	C
ATOM			PHE		21			88.956			
ATOM	9375	CZ	$_{\mathrm{PHE}}$	С	21	26.878	53.444	89.804	1.00	52.96	С
MOTA	9377	CE2	PHE	C	21	27.326	54.751	89.576	1 00	52.36	C
MOTA	9379	CDZ	PHE	C	21	26.921	55.399	88.494		49.70	С
ATOM	9381	С	PHE	C	21	23.797	56.492	85.203	1.00	47.89	C
ATOM		0	PHE		21	23.140	55.681	84.629	1 00	47.93	0
MOTA	9383	И	SER	С	22	24.198	57.626	84.646	1.00	48.25	N
ATOM	9385	CA	SER	C.	22	23.802	58.025	83.317	1.00	49.61	С
ATOM	9387	CB	SER	C	22	22.694	59.023	83.416		53.37	C
ATOM	9390	OG	SER	С	22	23.123	59.992	84.294	1.00	55.34	0
ATOM		С	SER	C	22	24.848	58.684	82.473	1 00	49.38	С
MOTA	9393	0	SER	C	22	25.692	59.451	82.980	1.00	51.10	0
ATOM	9394	N	CYS	C	23	24.693	58.465	81.165	1.00	49.64	N
MOTA		CA	CYS		23	25.639	58.792	80.105		49.37	C
ATOM	9398	CB	CYS	C	23	26.354	57.470	79.749	1.00	47.09	C
ATOM			CYS		23	27.565	57.489	78.438		48.27	S
		SG									
ATOM	9402	С	CYS	С	23	24.845	59.312	78.891	1.00	51.54	C
ATOM	9403	0	CYS	C	23	23.923	58.637	78.433	1.00	51.51	0
MOTA		N	ARG		24	25.162	60.511	78.383		53.04	N
ATOM	9406	CA	ARG	С	24	24.403	61.116	77.240	1.00	54.66	С
							62.434	77.585		56.60	C
ATOM		CB	ARG		24	23.681					
MOTA	9417	C	ARG	С	24	25.410	61.393	76.163	1.00	53.77	C
MOTA	9418	0	ARG	C	24	26.331	62.193	76.410	1.00	55.68	0
111 011	2110	~		_			02.250		2.55	55.00	J

ATOM	9419	N	ALA	C	25	25.276	60.747	75.000	1.00	51.76	N
ATOM		CA	ALA		25 ·	26.118	61.042	73.835		50.58	C
ATOM		CB	ALA		25	26.241	59.816	72.982		48.78	C
ATOM		C	ALA		25	25.591	62.193	73.012		53.60	Ċ
MOTA		Ō	ALA		25	24.412	62.317	72.863		56.32	Ō
ATOM		N	SER		26	26.483	63.018	72.497		54.27	N
ATOM		CA	SER		26	26.146	64.197	71.725		59.13	C
ATOM		CB	SER		26	27.425	64.981	71.463		59.86	Ċ
ATOM		OG	SER		26	28.278	64.302	70.552		59.91	Ō
ATOM		C	SER		26	25.446	63.922	70.377		61.50	C «
ATOM		0	SER		26	24.883	64.864	69,768		66.20	0
ATOM	9440	N	GLN	C	27	25.529	62.670	69.901		58.24	N
ATOM		CA	GLN	С	27	24.827	62.225	68.706	1.00	60.10	C
ATOM	9444	CB	GLN	C	27	25.688	62.296	67.470	1.00	59.83	С
MOTA	9447	CG	GLN	C	27	27.081	62.008	67.716	1.00	58.23	С
MOTA	9450	CD	GLN	C	27	27.918	61.992	66.456	1.00	60.02	С
MOTA	9451	OE1	GLN	С	27	28.552	62.988	66.171	1.00	62.47	0
MOTA	9452	NE2	GLN	С	27	27.924	60.869	65.701	1.00	58.88	Ñ
MOTA	9455	C	GLN	С	27	24.312	60.827	68.888	1.00	57.93	С
MOTA	9456	0	GLN	С	27	24.902	60.058	69.598	1.00	53.57	0
MOTA	9457	N	SER	С	28	23.165	60.527	68.271	1.00	61.55	N
MOTA	9459	CA	SER	С	28	22.408	59.316	68.582	1.00	60.90	С
MOTA	9461	CB	SER	C	28	20.945	59.423	68.203	1.00	65.18	С
MOTA	9464	OG	SER	C	28	20.591	58.143	67.697	1.00	66.79	0
MOTA	9466	C	SER	C	28	23.004	58.084	67.889	1.00	58.36	С
MOTA	9467	0	SER	С	28	23.256	58.074	66.663	1.00	60.09	0
MOTA	9468	N	ILE	С	29	23.131	57.029	68.691	1.00	54.91	N
MOTA	9470	CA	ILE	С	29	24.081	55.941	68.499	1.00	50.73	С
ATOM	9472	CB	ILE	С	29	24.939	56.025	69.690	1.00	48.76	C
MOTA	9474	CG1	ILE	С	29	26.204	56.799	69.506	1.00	47.90	C
MOTA	9477	CD1	ILE	C	29	26.781	56.887	71.020	1.00	46.20	С
MOTA	9481	CG2	ILE	С	29	25.406	54.716	70.140	1.00	50.42	C
MOTA	9485	C	ILE	С	29	23.419	54.538	68.588		48.53	С
MOTA	9486	0	ILE	C	29	24.082	53.548	68.607	1.00	45.78	0
MOTA	9487	N	GLY	C	30	22.128	54.442	68.772	1.00	50.20	N
MOTA	9489	CA	GLY	C	30	21.526	53.158	68.932	1.00	49.68	С
MOTA	9492	С	GLY	С	30	21.768	52.584	70.304		48.73	С
MOTA	9493	0	GTA	С	30	21.368	53.115	71.357		48.59	0
ATOM	9494	N	THR		31	22.462	51.467	70.275		47.96	N
MOTA		CA	THR		31	22.650	50.599	71.412		47.77	С
MOTA		CB	THR		31	22.033	49.252	71.008		50.14	C
MOTA		OG1	THR		31	20.656	49.459	70.720		56.14	0
MOTA		CG2	THR		31	21.894	48.337	72.170		52.95	C
MOTA		С	THR		31	24.137	50.455	71.595		44.48	C
MOTA		0	THR		31	24.637	49.717	72.445		42.22	0
MOTA		N	ASN		32	24.885	51.149	70.758		43.47	N
MOTA		CA	ASN		32	26.288	50.870	70.721		41.11	C
MOTA		CB	ASN		32	26.825	51.306	69.381		41.94	C
MOTA		CG	ASN		32	26.386	50.392	68.282		43.35	C
ATOM			ASN		32	26.176	49.129	68.474		38.32	0
ATOM			ASN		32	26.245	51.004	67.090		43.19	N
ATOM		C	ASN		32	27.059	51.545	71.863		39.52	C
ATOM		0	ASN		32	27.910	52.433	71.610		37.18	0
MOTA		N	ILE		33	26.740	51.112	73.093		39.04	И
MOTA		ÇA	ILE		33	27.444	51.546	74.289		38.42	С
MOTA		CB	ILE		33	26.556	52.547	75.003		40.72	С
MOTA			ILE		33	27.221	53.922	74.939		43.37	C
MOTA			ILE		33	26.172	54.854	74.384		49.43	С
MOTA			ILE		33	26.295	52.247	76.459		41.18	C C
MOTA		С	ILE		33	27.769	50.425	75.211			
MOTA		0	ILE		33	26.935	49.529	75.421		38.59	0
MOTA		N	HIS		34	28.925	50.499	75.846		34.61	N
MOTA		CA	HIS		34	29.162	49.613	76.966		34.71	C C
ATOM		CB	HIS		34	30.200	48.643	76.574		33.97	C
MOTA		CG	HIS		34	30.194	48.311	75.141		34.26	
MOTA			HIS		34	29.367	47.348	74.630		38.92	N
MOTA			HIS		34	29.607	47.205	73.339		38.14	C N
MOTA	9553	NEZ	HIS	C	34	30.540	48.071	72.995	1.00	37.85	N

ATOM	9555	CD2	HIS	С	34	30.930	48.773	74.108	1.00	34.95	С
ATOM		C	HIS		34	29.522	50.260	78.342	1.00		C
ATOM		0	HIS		34	29.807	51.432	78.392	1.00	33.64	0
ATOM		N	TRP	С	35	29.445	49.465	79.426	1.00	34.27	N
ATOM	9561	CA	TRP	С	35	29.783	49.896	80.759	1.00	34.35	C
MOTA	9563	CB	TRP	С	35	28.560	49.879	81.571	1.00	35.41	C
MOTA	9566	CG	TRP	С	35	27.514	50.870	81.176	1.00	38.77	C
ATOM	9567	CD1	TRP	С	35	26.443	50.635	80.362	1.00	38.77	C
MOTA		NE1	TRP	С	35	25.680	51.764	80.262	1.00		N
MOTA	9571		TRP		35	26.201	52.740	81.058		39.78	C
MOTA	9572	CD2	TRP	С	35	27.353	52.211	81.662		37.48	C
MOTA	9573		TRP		35	28.075	53.018	82.501		34.96	C
MOTA	9575	CZ3	TRP	С	35	27.628	54.293	82.738		38.38	C
MOTA			TRP		35	26.484	54.789	82.138		41.25	C
MOTA			TRP		35	25.744	54.022	81.306		42.46	C
MOTA		С	TRP		35	30.803	49.082	81.568		34.40	C
MOTA		0	TRP		35	30.787	47.871	81.643		34.68	0
MOTA		N	TYR		36	31.619	49.809	82.295		34.73	N
MOTA		CA	TYR		36	32.679	49.273	83.080		34.84	C
ATOM		CB	TYR		36	33.979	49.790	82.457		33.85	C
ATOM		CG	TYR		36	34.192	49.428	81.000		32.89	C
MOTA			TYR		36	33.730	50.226	79.935 78.569		30.47	C
ATOM			TYR		36	33.954	49.861	78.318		33.75	C
ATOM		CZ	TYR		36	34.628	48.702 48.211	77.099		32.78	0
ATOM		OH	TYR		36 36	34.972 35.081	47.932	79.350		36.07	C
ATOM ATOM			TYR TYR		36	34.855	48.298	80.683		34.48	C
ATOM		CDZ	TYR		36	32.638	49.720	84.560		36.53	C
ATOM		0	TYR		36	32.184	50.821	84.911		37.45	Ō
ATOM		И	GLN		37	33.181	48.875	85.422		37.01	N
ATOM		CA	GLN		37	33.485	49.253	86.776		37.99	C
ATOM		CB	GLN		37	32.866	48.245	87.662		40.20	C
ATOM		CG	GLN		37	33.024	48.454	89.097		43.44	С
ATOM		CD	GLN		37	32.484	47.260	89.850		44.50	С
ATOM			GLN		37	33.095	46.188	89.830		41.97	0
ATOM			GLN		37	31.341	47.450	90.519	1.00	45.99	N
ATOM		C	GLN		37	34.971	49.202	86.950	1.00	38.04	С
ATOM		0	GLN		37	35.576	48.347	86.420	1.00	37.13	0
ATOM		N	GLN		38	35.532	50.155	87.691	1.00	39.43	N
ATOM	9623	CA	GLN	С	38	36.916	50.233	88.006	1.00	40.11	С
ATOM	9625	CB	GLN	C	38	37.572	51.356	87.212	1.00	40.00	С
ATOM	9628	CG	GLN	С	38	39.138	51.282	87.328		41.59	C
MOTA	9631	CD	GLN	С	38	39.903	52.189	86.386		39.71	С
MOTA	9632	OE1	GLN	С	38	40.911	51.749	85.818		39.37	0
MOTA	9633	NE2	GLN	С	38	39.488	53.456	86.280		36.17	N
	9636	C	GLN		38	37.025	50.536	89.490		42.44	C
	9637	0	GLN		38	36.535	51.554	89.948		43.21	0
	9638	N	ARG		39	37.659	49.658	90.248		43.81	N
	9640	CA	ARG		39	37.854	49.916	91.649		46.09	C
	9642	CB	ARG		39	37.775	48.654	92.479		47.38	C
	9645	CG	ARG		39	36.378	48.003	92.388		47.92	C
	9648	CD	ARG		39	36.268	46.636	93.005		49.95	C
	9651	NE	ARG		39	34.888	46.233	93.235		51.18	N C
	9653	CZ	ARG		39	34.457	44.976	93.111 92.746		53.33	N
	9654		ARG		39	35.280	44.025	93.305		54.57	N
	9657		ARG		39	33.198	44.656 50.474	91.698		48.48	C
	9660	C	ARG		39	39.227 40.076	50.474	90.848		48.36	0
	9661	0	ARG		39	39.446	51.325	92.696		50.49	N
	9662 9664	N Ca	THR THR		40 40	40.767	51.785	93.054		52.37	C
		CA	THR			40.767	52.104	94.505		54.92	C
	9666	CB OC1			40 40	39.665	53.023	94.716		55.56	0
	9668		THR THR		40	41.930	52.878	94.716		57.62	C
	9670 9674	CG2	THR		40	41.930	50.749	92.731		53.36	C
	9675	0	THR		40	41.665	49.544	93.025		54.89	0
	9676	N	ASN		41	42.870	51.206	92.053		52.76	И
	9678	CA	ASN		41	44.015	50.359	91.762		54.22	C
	9680	CB	ASN		41	44.688	49.980	93.075		58.44	C
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ATTOM OCOS	00	TA CONT	C	41	45.154	51.230	93.865	1 00	63.41	С
ATOM 9683	CG	ASN							62.65	
ATOM 9684		ASN		41	45.183	52,360	93.337			0
ATOM 9685		ASN		41	45.482	51.031	95.136		66.15	N
ATOM 9688	C	ASN		41	43.781	49.126	90.892		51.30	C
ATOM 9689	0	ASN		41	44.628	48.262	90.811		52.22	0
ATOM 9690	N	GLY		42	42.667	49.105	90.189		47.41	N
ATOM 9692	CA	GLY		42	42.301	47.978	89.359		46.02	C
ATOM 9695	С	GLY		42	42.014	48.314	87.911		43.20	C
ATOM 9696	0	GLY		42	41.863	49.478	87.503		41.61	0
ATOM 9697	N	SER	С	43	41.944	47.296	87.084		42.43	N
ATOM 9699	CA	SER	С	43	41.710	47.632	85.715		41.19	C
ATOM 9701	CB	SER	C	43	42.475	46.773	84.770	1.00	41.96	C
ATOM 9704	OG	SER	С	43	42.809	45.525	85.299	1.00	46.75	0
ATOM 9706	C	SER	C	43	40.215	47.594	85.505	1.00	39.79	C
ATOM 9707	0	SER	C	43	39.487	47.122	86.353	1.00	41.05	0
ATOM 9708	N	PRO	С	44	39.700	48.223	84.476	1.00	38.34	N
ATOM 9709	CA	PRO	С	44	38.252	48.202	84.306	1.00	37.29	C
ATOM 9711	CB	PRO	C	44	37.996	49.170	83.120	1.00	36.21	C
ATOM 9714	CG	PRO	С	44	39.228	49.834	82.904	1.00	37.50	C
ATOM 9717	CD	PRO	С	44	40.363	49.045	83.467	1.00	38.27	C
ATOM 9720	С	PRO		44	37.665	46.810	84.093	1.00	35.59	С
ATOM 9721	0	PRO		44	38.311	45.834	83.755	1.00	36.62	0
ATOM 9722	N	ARG		45	36.390	46.753	84.321	1.00	34.62	N
ATOM 9724	CA	ARG		45	35.656	45.514	84.232		35.68	С
ATOM 9726	CB	ARG		45	35.337	45.068	85.609		37.79	Ċ
ATOM 9729	CG	ARG		45	34.555	43.888	85.738		38.23	C
ATOM 9732	CD	ARG		45	34.072	43.791	87.116		42.83	Ċ
ATOM 9735	NE	ARG		45	33.417	42.512	87.398		49.92	N
ATOM 9737	CZ	ARG		45	32.649	42.276	88.464		48.72	C
ATOM 9738		ARG		45	32.470	43.244	89.332		42.80	N
ATOM 9738		ARG		45	32.470	41.070	88.622		53.29	N
ATOM 9741	C	ARG		45	34.371	45.749	83.473		34.81	C
		ARG		45	33.579	46.617	83.770		34.72	Ö
ATOM 9745	O						82.464		35.29	N
ATOM 9746	N	LEU		46	34.174	44.950				C
ATOM 9748	CA	LEU		46	33.028	45.109	81.603		34.83	
ATOM 9750	CB	LEU		46	33.294	44.349	80.299		34.21	C
ATOM 9753	CG	LEU		46	32.122	44.073	79.436		33.10	C
ATOM 9755		LEU		46	31.697	45.418	78.882		34.82	C
ATOM 9759		LEU		46	32.515	43.060	78.411		33.01	С
ATOM 9763	C	LEU		46	31.824	44.529	82.356		36.54	С
ATOM 9764	0	LEU		46	31.892	43.392	82.806		38.07	0
ATOM 9765	N	LEU		47	30.782	45.344	82.478		36.50	N
ATOM 9767	CA	LEU		47	29.501	45.034	83.164		39.21	C
ATOM 9769	СВ	LEU		47	29.061	46.227	83.993		39.56	С
ATOM 9772	CG	LEU		47	30.000	46.623	85.085		39.66	C
ATOM 9774		LEU		47	29.636	47.995	85.413		40.73	C
ATOM 9778		LEU		47	29.808	45.699	86.273		43.21	.C
ATOM 9782	C	LEU		47	28.293	44.773	82.237		39.13	C
ATOM 9783	0	LEU		47	27.510	43.838	82.443		41.74	0
ATOM 9784	И	ILE		48	28.172	45.648	81.243		36.93	N
ATOM 9786	CA	ILE		48	27.142	45.636	80.277		37.02	С
ATOM 9788	CB	ILE		48	26.072	46.575	80.758		38.96	C
ATOM 9790		ILE		48	25.469	45.944	82.022		42.23	C
ATOM 9793		ILE		48	24.088	45.977	82.163		43.44	С
ATOM 9797	CG2	ILE	C	48	25.048	46.823	79.629		41.51	C
ATOM 9801	С	ILE	С	48	27.663	46.061	78.952	1.00	34.72	С
ATOM 9802	0	ILE	C	48	28.368	47.060	78.847		33.27	0
ATOM 9803	N	LYS	С	49	27.288	45.296	77.927		35.49	N
ATOM 9805	CA	LYS	C	49	27.566	45.597	76.514	1.00	33.86	С
ATOM 9807	CB	LYS	С	49	28.333	44.450	75.916		33.07	С
ATOM 9810	CG	LYS	С	49	27.661	43.106	76.022	1.00	38.02	С
ATOM 9813	CD	LYS	С	49	28.443	42.066	75.280	1.00	39.19	С
ATOM 9816	CE	LYS	С	49	27.679	41.455	74.125	1.00	40.58	С
ATOM 9819	NZ	LYS	С	49	28.697	40.846	73.223	1.00	41.24	N
ATOM 9823	С	LYS		49	26.249	45.889	75.720	1.00	34.77	С
ATOM 9824	0	LYS	С	49	25.183	45.350	75.981	1.00	35.85	0
ATOM 9825	N	TYR	С	50	26.335	46.780	74.771	1.00	33.83	N
ATOM 9827	CA	TYR		50	25.191	47.100	73.987	1.00	37.51	С

ATOM 9829	CB TYR C	50	24.878	46.016	72.959	1.00 38.19	С
						1.00 38.64	Č
ATOM 9832	CG TYR C	50	26.067	45.851	72.028		
ATOM 9833	CD1 TYR C	50	26.984	44.826	72.216	1.00 37.12	С
ATOM 9835	CE1 TYR C	50	28.076	44.706	71.409	1.00 33.93	C
ATOM 9837	CZ TYR C	50	28.306	45.624	70.421	1.00 32.98	С
ATOM 9838	OH TYR C	50	29,410	45.521	69.616	1.00 34.60	0
ATOM 9840	CE2 TYR C	50	27.482	46.665	70.239	1.00 34.65	Ċ
ATOM 9842	CD2 TYR C	50	26.363	46.797	71.037	1.00 38.98	С
ATOM 9844	C TYR C	50	24.014	47.451	74.872	1.00 40.75	C
ATOM 9845	O TYR C	5 0	22.900	46.896	74.766	1.00 42.82	0
ATOM 9846	N ALA C	51	24.282	48.432	75.747	1.00 40.74	N
ATOM 9848	CA ALA C	51	23.233	49.188	76.446	1.00 41.98	С
							C
ATOM 9850	CB ALA C	51	22.286	49.720	75.487	1.00 42.55	
ATOM 9854	C ALA C	51	22.556	48.363	77.536	1.00 43.53	C
ATOM 9855	O ALA C	51	22.440	48.796	78.673	1.00 43.80	0
ATOM 9856	N SER C	52	22.203	47.139	77.210	1.00 44.89	N
ATOM 9858	CA SER C	52	21.403	46.352	78.108	1.00 48.67	C
ATOM 9860	CB SER C	52	19.959	46.450	77.643	1.00 52.04	C
ATOM 9863	OG SER C	52	19.845	45.977	76.294	1.00 53.55	0
ATOM 9865	C SER C	52	21.783	44.880	78.181	1.00 48.92	С
ATOM 9866	O SER C	52	21.086	44.131	78.910	1.00 50.69	0
ATOM 9867	N GLU C	53	22.858	44.477	77.491	1.00 46.03	N
ATOM 9869	CA GLU C	53	23.166	43.060	77.423	1.00 47.67	С
					76.064	1.00 46.94	Ċ
ATOM 9871	CB GLU C	53	23.704	42.543			
ATOM 9874	CG GLU C	53	22.938	42.960	74.829	1.00 49.55	С
ATOM 9877	CD GLU C	53	23.501	42.450	73.448	1.00 51.85	C
ATOM 9878	OE1 GLU C	53	24.687	41.939	73.270	1.00 43.43	0
ATOM 9879	OE2 GLU C	53	22.655	42.572	72.483	1.00 57.14	0
ATOM 9880	C GLU C	53	24.150	42.708	78.518	1.00 46.50	C
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ATOM 9881	O GLU C	53	25.307	43.167	78.557	1.00 42.83	•
ATOM 9882	N SER C	54	23.689	41.775	79.342	1.00 49.02	N
ATOM 9884	CA SER C	54	24.458	41.304	80.479	1.00 49.21	С
ATOM 9886	CB SER C	54	23.589	40.467	81.346	1.00 52.35	С
ATOM 9889	OG SER C	54	23.295	39.351	80.585	1.00 56.61	0
ATOM 9891	C SER C	54	25.636	40.452	80.034	1.00 46.98	C
							Ö
ATOM 9892	O SER C	54	25.625	39.895	78.944	1.00 45.39	
ATOM 9893	N ILE C	55	26.611	40.392	80.941	1.00 45.65	N
ATOM 9895	CA ILE C	55	27.878	39.764	80.739	1.00 44.10	C
ATOM 9897	CB ILE C	55	28.910	40.806	80.912	1.00 40.90	С
ATOM 9899	CG1 ILE C	55	29.119	41.482	79.584	1.00 40.37	C
ATOM 9902	CD1 ILE C	55	29.086	42.819	79.727	1.00 42.31	C
							Ċ
ATOM 9906	CG2 ILE C	55	30.195	40.224	81.246	1.00 42.13	
ATOM 9910	C ILE C	55	28.092	38.693	81.748	1.00 47.09	C
ATOM 9911	O ILE C	55	27.684	38.816	82.892	1.00 49.47	0
ATOM 9912	N SER C	56	28.746	37.611	81.384	1.00 48.71	Ŋ
ATOM 9914	CA SER C	56	28.702	36.538	82.343	1.00 52.52	С
ATOM 9916			28.994	35.174	81.716	1.00 54.74	С
	CB SER C			34.847	82.071	1.00 57.29	Ö
ATOM 9919	OG SER C	56	30.317				
ATOM 9921	C SER C		29.657	36.960	83.473	1.00 51.73	C
ATOM 9922	O SER C	56	30.536	37.820	83.277	1.00 48.86	0
ATOM 9923	N GLY C	57	29.442	36.398	84.659	1.00 54.10	И
ATOM 9925	CA GLY C	57	30.238	36.705	85.830	1.00 53.98	C
ATOM 9928	C GLY C		29.779	37.965	86.529	1.00 52.14	С
				38.382	87.538	1.00 52.51	Ö
ATOM 9929	O GLY C		30.328				
ATOM 9930	N ILE C	58	28.756	38.598	86.015	1.00 50.75	N
ATOM 9932	CA ILE C	58	28.314	39.794	86.658	1.00 49.91	C
ATOM 9934	CB ILE C	58	28.314	40.938	85.671	1.00 46.82	C
ATOM 9936	CG1 ILE C		29.765	41.294	85.421	1.00 45.06	C
ATOM 9939	CD1 ILE C		29.908	41.654	84.172	1.00 45.24	C
							c
ATOM 9943	CG2 ILE C		27.517	42.240	86.215	1.00 45.62	
ATOM 9947	C ILE C		26.990	39.664	87.360	1.00 53.05	C
ATOM 9948	O ILE C	58	25.977	39.199	86.799	1.00 53.28	0
ATOM 9949	N PRO C	59	27.025	40.124	88.607	1.00 54.73	N
ATOM 9950	CA PRO C		25.850	40.053	89.461	1.00 58.09	С
			26.262	40.797	90.748	1.00 58.25	Ċ
ATOM 9952	CB PRO C						
ATOM 9955	CG PRO C		27.651	41.330	90.560	1.00 55.53	C
ATOM 9958	CD PRO C		28.183	40.749	89.287	1.00 53.29	C
ATOM 9961	C PRO C	59	24.629	40.652	88.749	1.00 57.82	C

ATOM	9962	0	PRO	С	59	24.644	41.654	88.035	1.00 53.30	0
ATOM	9963	N	SER	С	60	23.562	39.887	88.909	1.00 63.33	N
ATOM	9965	CA	SER	С	60	22.219	40.188	88.390	1.00 65.73	C
ATOM	9967	CB	SER	С	60	21.267	39.142	88.972	1.00 71.17	C
MOTA	9970	OG	SER	С	60	21.740	38.742	90.265	1.00 74.60	0
ATOM	9972	С	SER		60	21.779	41.655	88.744	1.00 64.64	C
MOTA	9973	0	SER		60	21.114	42.343	87.979	1.00 64.25	0
MOTA		N	ARG		61	22.185	42.151	89.894	1.00 64.61	N
	9976	CA	ARG		61	21.829	43.513	90.261	1.00 63.48	C
	9978		ARG		61	22.297	43.845	91.663	1.00 64.21	C
	9981	CG	ARG		61	23.414	43.056	92.181	1.00 63.18	C
ATOM		CD	ARG		61	24.104	43.802	93.236	1.00 63.84 1.00 61.19	C
ATOM		NE CZ	ARG ARG		61 61	25.537 26.362	43.714 43.963	93.099 94.043	1.00 58.51	N C
	9989 9990	NH1			61	25.979	44.372	95.210	1.00 68.13	N
	9993	NH2			61	27.590	43.835	93.832	1.00 58.31	N
	9996	C	ARG		61	22.316	44.585	89.309	1.00 59.40	Č
	9997	0	ARG		61	21.757	45.689	89.288	1.00 60.37	Õ
	9998	N	PHE		62	23.370	44.295	88.562	1.00 55.68	N
	10000	CA	PHE		62	23.773	45.184	87.492	1.00 51.73	
	10002	CB	PHE		62	25.226	44.908	87.114	1.00 49.7	
MOTA	10005	CG	PHE	: C	62	26.190	45.398	88.121	1.00 48.1	4 C
MOTA	10006	CD1	PHE	C	62	26.773	44.542	89.009	1.00 49.83	3 C
ATOM	10008	CE1	PHE	C	62	27.607	44.999	89.940	1.00 50.62	2 C
MOTA	10010	CZ	PHE	C	62	27.859	46.353	90.035	1.00 49.0	5 C
MOTA	10012	CE2	PHE	; C	62	27.252	47.208	89.173	1.00 46.83	
	10014	CD2			62	26.440	46.724	88.219	1.00 46.7	
	10016	С	PHE		62	22.859	45.064	86.262	1.00 51.6	
	10017	0	PHE		62	22.550	43.980	85.814	1.00 52.39	
	10018	N	SEF		63	22.447	46.200	85.726	1.00 50.20	
	10020 10022	CA	SEF		63 63	21.681 20.242	46.249	84.502 84.784	1.00 51.03 1.00 55.13	
	10022	CB OG	SEF SEF		63	19.490	45.917 47.066	85.148	1.00 57.69	
	10023	C	SEF		63	21.835	47.599	83.758	1.00 49.12	
	10028	0	SEF		63	22.366	48.536	84.265	1.00 47.72	
	10029	N	GLY		64	21.405	47.648	82.513	1.00 49.99	
	10031	CA	GLY		64	21.517	48.834	81.694	1.00 48.78	
	10034	C	GLY		64	20.311	48.920	80.758	1.00 52.3	2 C
ATOM	10035	0	GLY	. C	64	19.752	47.899	80.330	1.00 54.8	4 O
MOTA	10036	N	SEF	₹ C	65	19.880	50.152	80.489	1.00 53.63	3 N
ATOM	10038	CA	SEF		65	18.816	50.477	79.546	1.00 56.59	
ATOM	10040	CB	SEF		65	17.528	50.804	80.288	1.00 61.0	
	10043	OG	SEF		65	17.844	51.826	81.211	1.00 63.4	
	10045	C	SEF		65	19.200	51.719	78.732	1.00 55.3	
	10046	0	SEF		65	20.157	52.439	79.066	1.00 53.24	
	10047	N	GLY		66	18.429	51.969	77.660	1.00 57.4	
	10049 10052	CA	GL_{Y}		66 66	18.670 18.946	53.097 52.775	76.740 75.281	1.00 56.09 1.00 53.82	
	10052	C O	GLY		66	19.495	51.716	74.976	1.00 50.48	
	10053	N	SEF		67	18.490	53.659	74.404	1.00 55.0	
	10054	CA	SEF		67	18.997	53.730	73.072	1.00 55.1	
	10058	СВ	SEF		67	18.520	52.591	72.105	1.00 56.9	
	10061	OG	SEF		67	17.150	52.540	71.891	1.00 61.5	
	10063	С	SEF		67	18.766	55.098	72.509	1.00 57.6	
	10064	0	SEF	R C	67	17.849	55.760	72.887	1.00 61.0	
MOTA	10065	N	GLY	' C	68	19.654	55.501	71.597	1.00 57.28	8 N
ATOM	10067	CA	GLY	. C	68	19.701	56.829	71.017	1.00 59.2	
MOTA	10070	С	GLY	' C	68	20.913	57.529	71.590	1.00 56.5	7 C
	10071	0	GLY		68	22.008	57.423	71.141	1.00 53.9	
	10072	N	THE		69	20.681	58.136	72.712	1.00 58.48	
	10074	CA	THE		69	21.398	59.306	73.137	1.00 59.1	
	10076	CB	THE		69	20.645	60.517	72.548	1.00 64.50	
	10078		THE		69	21.537	61.132	71.613	1.00 67.1	
	10080		THE		69	20.230	61.612	73.564	1.00 66.00	
	10084	C	THE		69	21.448	59.347	74.621	1.00 57.98	
	10085	O N	THE		69 70	22.437	59.751	75.159	1.00 55.5	
	10086	N C7	ASE ASE		70 70	20.375	58.909	75.272 76.714	1.00 60.0	
MULH	10088	CA	ADE		70	20.375	58.727	70.714	T.00 00.0	

7/mota 10000	CD	NOD C	70	19.133	59.425	77.247	1.00 64.32	С
ATOM 10090	CB	ASP C						č
ATOM 10093	CG	ASP C	70	19.158	60.961	76.992	1.00 70.77	
ATOM 10094	OD1	ASP C	70	20.277	61.595	77.042	1.00 67.90	0
ATOM 10095	OD2	ASP C	70	18.069	61.615	76.776	1.00 79.56	0
ATOM 10096	C	ASP C	70	20.433	57.271	77.244	1.00 57.20	C
								Ö
ATOM 10097	0	ASP C	70	19.434	56.565	77.157	1.00 61.34	
ATOM 10098	N	PHE C	71	21.564	56.871	77.814	1.00 52.43	N
ATOM 10100	CA	PHE C	71	21.775	55.575	78.451	1.00 51.08	С
ATOM 10102	СВ	PHE C	71	23.020	54.922	77.855	1.00 48.63	C
ATOM 10105	CG	PHE C	71	23.070	55.028	76.388	1.00 47.77	С
								Č
ATOM 10106		PHE C	71	23.558	56.186	75.786	1.00 46.39	
ATOM 10108	CE1	PHE C	71	23.531	56.351	74.450	1.00 47.37	C
ATOM 10110	CZ	PHE C	71	23.001	55.340	73.654	1.00 50.56	C
ATOM 10112		PHE C	71	22.502	54.172	74.245	1.00 49.84	C
				22.531		75.620	1.00 48.19	Č
ATOM 10114		PHE C	71		54.039			
ATOM 10116	С	PHE C	71	21.950	55.645	79.988	1.00 50.97	C
ATOM 10117	0	PHE C	71	22.106	56.674	80.535	1.00 52.40	0
ATOM 10118	N	THR C	72	21.907	54.515	80.672	1.00 50.66	N
ATOM 10120	CA	THR C	72	21.602	54.430	82.111	1.00 51.41	С
ATOM 10122	CB	THR C	72	20.094	54.686	82.394	1.00 55.42	C
ATOM 10124	OG1	THR C	72	19.880	56.096	82.612	1.00 58.52	0
ATOM 10126	CG2	THR C	72	19.663	54.044	83.737	1.00 55.85	С
ATOM 10130	С	THR C	72	22,009	53.029	82.632	1.00 49.89	С
			72	21.515	51.980	82.190	1.00 50.33	0
ATOM 10131	0	THR C						
ATOM 10132	N	LEU C	73	22.945	53.034	83.554	1.00 48.22	N
ATOM 10134	CA	LEU C	73	23.410	51.850	84.229	1.00 47.33	C
ATOM 10136	CB	LEU C	73	24.898	52.013	84.360	1.00 43.98	С
ATOM 10139	CG	LEU C	73	25.579	50.891	85.084	1.00 43.79	С
								c
ATOM 10141	CD1		73	25.447	49.588	84.285	1.00 43.27	
ATOM 10145	CD2	LEU C	73	27.020	51.257	85.309	1.00 39.29	C
ATOM 10149	C	LEU C	73	22.760	51.821	85.616	1.00 50.10	С
ATOM 10150	0	LEU C	73	22.792	52.823	86.325	1.00 51.66	0
					50.743	86.071	1.00 51.27	И
ATOM 10151	N	SER C	74	22.167				
ATOM 10153	CA	SER C	74	21.730	50.879	87.435	1.00 54.82	С
ATOM 10155	CB	SER C	74	20.291	51.311	87.436	1.00 57.75	C
ATOM 10158	OG	SER C	74	19.645	50.362	86.713	1.00 60.90	0
ATOM 10160	C	SER C	74	21.976	49.663	88.313	1.00 56.29	C
							1.00 56.37	Ō
ATOM 10161	0	SER C	74	22.286	48.605	87.809		
ATOM 10162	N	ILE C	75	21.872	49.823	89.634	1.00 58.41	N
ATOM 10164	CA	ILE C	75	22.106	48.720	90.561	1.00 59.78	C
ATOM 10166	CB	ILE C	75	23.356	49.038	91.371	1.00 57.98	С
ATOM 10168	CG1	ILE C	75	24.460	49.483	90.438	1.00 54.60	С
ATOM 10171	CD1	ILE C	75	25.843	49.606	91.120	1.00 55.60	C
ATOM 10175	CG2	ILE C	75	23.802	47.821	92.132	1.00 59.77	С
ATOM 10179	С	ILE C	75	20.937	48.621	91.491	1.00 64.00	C
ATOM 10180	0	ILE C	75	20.583	49.616	92.011	1.00 65.00	0
					47.458	91.705	1.00 67.66	N
ATOM 10181	N	ASN C	76	20.325				
ATOM 10183	CA	ASN C	76	19.433	47.273	92.874	1.00 72.86	C
ATOM 10185	CB	ASN C	76	18.573	46.066	92.666	1.00 77.07	C
ATOM 10188	CG	ASN C	76	17.770	46.202	91.447	1.00 80.49	C
ATOM 10189	OD1	ASN C	76	17.965	47.202	90.704	1.00 80.41	0
			76			91.198	1.00 83.51	Ŋ
ATOM 10190		ASN C		16.849	45.249			
ATOM 10193	С	ASN C	76	20.234	47.037	94.121	1.00 73.25	С
ATOM 10194	0	ASN C	76	21.376	46.588	94.067	1.00 71.87	0
ATOM 10195	N	SER C	77	19.686	47.302	95.282	1.00 75.89	N
ATOM 10197	CA	SER C	77	20.510	47.059	96.480	1.00 76.19	С
ATOM 10199	CB	SER C	77	20.179	45.692	97.115	1.00 80.08	C
ATOM 10202	OG	SER C	77	21.236	44.803	96.770	1.00 81.82	0
ATOM 10204	С	SER C	77	22.056	47.202	96.231	1.00 70.21	C
ATOM 10205	0	SER C	77	22.780	46.223	95.964	1.00 66.16	0
ATOM 10206	N	VAL C	78	22.515	48.446	96.376	1.00 68.55	N
ATOM 10208	CA	VAL C	78	23.958	48.795	96.322	1.00 65.96	С
ATOM 10210	CB	VAL C	78	24.263	50.293	96.464	1.00 64.03	С
ATOM 10212	CG1	VAL C	78	25.675	50.540	96.047	1.00 59.70	С
ATOM 10212		VAL C	78	23.367	51.101	95.666	1.00 63.10	Ċ
ATOM 10220	C	VAL C	78	24.733	48.220	97.475	1.00 68.31	C
ATOM 10221	0	VAL C	78	24.269	48.259	98.604	1.00 70.79	0
ATOM 10222	И	GLU C	79	25.939	47.756	97.184	1.00 67.29	N

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ATOM	10224	CA	GLU	С	79	26.747	47.109	98.182	1.00	70.49	C
МОТА	10226	CB	GLU	C	79	27.015	45.646	97.772	1.00	71.59	C
										78.33	C
ATOM	10229	CG	GLU	C	79	27.567	44.817	98.955			
ATOM	10232	CD	GLU	С	79	27.217	43.318	98.941	1.00	81.18	C
MOTE Z	10233	OE1	GLU	С	79	27.474	42.734	97.843	1 00	73.90	0
ATOM	10234	OE2	GLU	C	79	26.760	42.776	100.055	1.00	81.77	0
MOTA	10235	С	GLU	C	79	28.063	47.841	98.381	1.00	69.03	С
	10236	0	GLU	C	79	28.525	48.598	97.500	1 00	66.31	0
ATOM	10237	N	SER	C	80	28.689	47.602	99.539	T.00	71.62	N
ATOM	10239	CA	SER	С	80	30.037	48.142	99.822	1.00	70.15	C
	10241	CB	SER		80	30.613	17 569	101.134	1 00	74.08	C
MOTA	10244	OG	SER	C	80	31.587	46.535	100.904	1.00	74.59	0
MOTA	10246	C	SER	С	80	30.987	47.854	98.682	1.00	66.56	C
	10247	0	SER		80	31.837	48.668	98.330	1 00	65.25	0
	10248	N	GLU		81	30.846	46.681	98.119		65.84	N
ATOM	10250	ÇA	GLU	С	81	31.744	46.272	97.084	1.00	64.00	C
MOTA	10252	CB	GLU	C	81	31.555	44.781	96.945	1.00	67.28	C
	10255	CG	GLU		81	32.772	43.977	96.520		70.30	С
ATOM	10258	CD	GLU	C	81	32.322	42.601	95.984	1.00	76.21	C
ATOM	10259	QE1	GLU	С	81	31.393	41.987	96.673	1.00	77.86	0
	10260	OE2	GLU		81	32.876	42.177	94.881	1 00	75.85	0
								95.746			Ċ
	10261	С	GLU		81	31.451	47.010			59.35	
ATOM	10262	0	GLU	С	81	32.154	46.833	94.764	1.00	57.13	0
ATOM	10263	N	ASP	C	82	30.422	47.851	95.702	1.00	57.91	N
	10265	CA	ASP		82	30.121	48.600	94.488		54.01	С
ATOM	10267	CB	ASP	C	82	28.618	48.743	94.296		54.53	C
ATOM	10270	CG	ASP	С	82	27.901	47.367	94.085	1.00	57.28	C
АТОМ	10271	OD1	ASP	C	82	28.609	46.391	93.687	1.00	53.65	0
										58.60	Ō
	10272		ASP		82	26.642	47.201	94.289			
ATOM	10273	С	ASP	С	82	30.766	49.950	94.511	1.00	52.01	С
MOTA	10274	0	ASP	С	82	30.626	50.689	93.606	1.00	49.44	0
	10275	N	ILE	C	83	31.480	50.285	95.562	1.00	53.49	N
											c
	10277	CA	ILE		83	32.314	51.486	95.551		52.54	
ATOM	10279	CB	ILE	С	83	32.877	51.678	96.961	1.00	54.86	С
MOTA	10281	CG1	ILE	C	83	31.810	52.202	97.892	1.00	56.48	С
	10284	CD1	ILE	С	83	32.220	52.011	99.307	1 00	59.82	C
	10288	CG2	ILE		83	34.042	52.604	96.978		55.41	C
MOTA	10292	С	ILE	С	83	33.434	51.354	94.470	1.00	50.29	С
ATOM	10293	0	ILE	С	83	34.193	50.354	94.456	1.00	49.66	0
	10294	N	ALA		84	33.528	52.382	93.610		48.84	N
ATOM	10296	CA	ALA	C	84	34.175	52.304	92.263	1.00	46.44	С
MOTA	10298	CB	ALA	С	84	33.829	50.998	91.537	1.00	44.27	C
ATOM	10302	С	ALA	С	84	33.761	53.452	91.360	1.00	45.36	C
							53.978			46.26	0
	10303	0	ALA		84	32.673		91.469			
ATOM	10304	N	ASP	С	85	34.621	53.824	90.437		44.56	N
ATOM	10306	CA	ASP	С	85	34.175	54.588	89.275	1.00	43.73	C
	10308	CB	ASP		85	35.354	55.295	88.690	1 00	43.97	C
	10311	CG	ASP		85	35.925	56.290	89.604		47.86	C
ATOM	10312	OD1	ASP	C	85	35.213	57.307	89.833		51.36	0
ATOM	10313	OD2	ASP	С	85	37.066	56.130	90.098	1.00	46.79	0
	10314	С	ASP		85	33.502	53.735	88.135		41.60	C
											Ō
	10315	0	ASP		85	33.984	52.694	87.751		40.63	
MOTA	10316	И	TYR	С	86	32.394	54.211	87.600	1.00	40.84	N
MOTA	10318	CA	TYR	С	86	31.741	53.554	86.508	1.00	39.46	C
	10320	CB	TYR		86	30.278	53.370	86.862		40.82	С
	10323	CG	TYR		86	30.128	52.481	88.089		41.54	C
	10324	CD1	TYR	С	86	30.275	52.972	89.390		40.87	С
ATOM	10326	CE1	TYR	С	86	30.238	52.105	90.477	1.00	42.12	C
	10328	CZ	TYR		86	30.045	50.721	90.274		43.49	С
	10329	OH	TYR		86	29.967	49.762	91.277		44.20	0
ATOM	10331	CE2	TYR	С	86	29.911	50.233	88.998	1.00	43.68	С
ATOM	10333	CD2	TYR	С	86	29.947	51.111	87.922	1.00	43.03	C
	10335	С	TYR		86	31.981	54.442	85.282		39.22	С
	10336	0	TYR		86	31.996	55.699	85.428		39.82	0
ATOM	10337	N	TYR	C	87	32.248	53.781	84.121	1.00	37.23	N
MOTA	10339	CA	TYR	С	87	32.593	54.411	82.848	1.00	35.32	C
	10341	CB	TYR		87	34.068	54.178	82.513		34.25	С
					87	35.078	54.824	83.436		32.69	c
ALOM	10344	CG	TYR	C	0 /	33.070	24.024	05.450	T.00	JZ.03	C

ATOM 10345	CD1 T	YR C	87	35.673	54.085	84.435	1.00 34.43	C	
ATOM 10347	CE1 T		87	36.624	54.622	85.308	1.00 34.35	C	
							1.00 35.80	č	
ATOM 10349		YR C	87	36.944	55.979	85.221			
ATOM 10350		YR C	87	37.860	56.518	86.145	1.00 36.98	0	
ATOM 10352	CE2 T	YR C	87	36.313	56.765	84.217	1.00 34.38	C	
ATOM 10354	CD2 T	YR C	87	35.427	56.154	83.317	1.00 32.88	C	
ATOM 10356	C T	YR C	87	31.659	53.868	81.712	1.00 35.54	C	
ATOM 10357		YR C	87	31.079	52.769	81.798	1.00 33.51	0	
					54.688	80.674	1.00 36.35	N	
ATOM 10358		YS C	88	31.451					
ATOM 10360		CYS C	88	30.675	54.252	79.500	1.00 36.73	C	
ATOM 10362	CB C	YS C	88	29.397	55.021	79.326	1.00 38.36	C	
ATOM 10365	SG C	CYS C	88	29.606	56.785	79.010	1.00 45.26	S	
ATOM 10366	C C	CYS C	88	31.526	54.473	78.301	1.00 36.06	C	
ATOM 10367		YS C	88	32.359	55.383	78.363	1.00 37.61	0	
ATOM 10368		LN C	89	31.434	53.593	77.291	1.00 34.22	N	
		LN C	89	32.123	53.844	76.047	1.00 35.12	Ċ	
ATOM 10370								C	
ATOM 10372		SLN C	89	33.376	52.960	75.808	1.00 34.83		
ATOM 10375	CG G	SLN C	89	33.011	51.589	75.387	1.00 35.80	С	
ATOM 10378	CD G	ELN C	89	34.144	50.697	75.122	1.00 32.88	C	
ATOM 10379	OE1 G	GLN C	89	35.021	50.995	74.338	1.00 28.59	0	
ATOM 10380	NE2 G	LN C	89	34.097	49.552	75.751	1.00 34.45	N	
ATOM 10383		LN C	89	31.178	53.728	74.916	1.00 35.20	C	
ATOM 10384		ELN C	89	30.136	53.113	75.048	1.00 36.60	Ō	
				31.513	54.370	73.812	1.00 35.36	N	
ATOM 10385		SLN C	90						
ATOM 10387		ELN C	90	30.724	54.222	72.614	1.00 35.88	C	
ATOM 10389		FLN C	90	30.190	55.561	72.034	1.00 37.15	С	
ATOM 10392	CG G	ELN C	90	31.160	56.518	71.509	1.00 38.90	C	
ATOM 10395	CD G	LN C	90	31.751	56.167	70.178	1.00 39.85	C	
ATOM 10396	OE1 G	LN C	90	31.045	55.686	69.291	1.00 39.79	0	
ATOM 10397	NE2 G	LN C	90	33.055	56.488	70.000	1.00 36.83	N	
ATOM 10400	C G	SLN C	90	31.541	53.417	71.654	1.00 34.21	C	
ATOM 10401		ELN C	90	32.721	53.427	71.725	1.00 35.03	0	
ATOM 10402		ASN C	91	30.827	52.751	70.783	1.00 35.58	N	
		ASN C	91	31.209	51.680	69.873	1.00 35.22	C	
ATOM 10404					50.451	70.175	1.00 33.22	č	
ATOM 10406		ASN C	91	30.309					
ATOM 10409		ASN C	91	31.052	49.282	69.987	1.00 34.93	C	
ATOM 10410	OD1 A		91	32.257	49.468	69.874	1.00 37.10	0	
ATOM 10411	ND2 A		91	30.452	48.094	69.806	1.00 34.50	N	
ATOM 10414	C A	ASN C	91	30.932	52.048	68.387	1.00 36.89	C	
ATOM 10415	O A	ASN C	91	31.327	51.330	67.449	1.00 35.22	0	
ATOM 10416	N A	ASN C	92	30.203	53.164	68.223	1.00 37.82	N	
ATOM 10418	CA A	ASN C	92	29.658	53.596	66.975	1.00 39.19	C	
ATOM 10420	CB A	ASN C	92	28.456	54.437	67.328	1.00 42.61	C	
ATOM 10423		ASN C	92	27.489	54.658	66.206	1.00 42.89	С	
ATOM 10424	OD1 A		92	27.520	54.082	65.292	1.00 44.19	0	
	ND2 A		92	26.568	55.490	66.411	1.00 57.14	N	
ATOM 10425									
ATOM 10428		ASN C	92	30.602	54.401	66.135	1.00 39.91	C	
ATOM 10429		ASN C	92	30.717	54.126	64.972	1.00 39.51	0	
ATOM 10430	N A	ASN C	93	31.291	55.405	66.676	1.00 40.89	N	
ATOM 10432	CA A	ASN C	93	32.127	56.280	65.792	1.00 43.39	C	
ATOM 10434	CB A	ASN C	93	31.939	57.785	66.086	1.00 45.26	C	
ATOM 10437	CG A	ASN C	93	30.611	58.254	65.777	1.00 45.20	C	
ATOM 10438	OD1 A		93	29.775	57.526	65.177	1.00 44.43	0	
ATOM 10439	ND2 A		93	30.318	59.439	66.265	1.00 49.86	N	
ATOM 10442		ASN C	93	33.573	55.924	65.885	1.00 42.51	C	
						66.862	1.00 42.51	Õ	
ATOM 10443		ASN C	93	33.867	55.305				
ATOM 10444		RP C	94	34.457	56.343	64.958	1.00 43.96	N	
ATOM 10446		rp c	94	35.670	55.658	64.819	1.00 43.09	C	
ATOM 10448		RP C	94	36.318	55.596	63.431	1.00 45.10	С	
ATOM 10451	CG I	TRP C	94	37.929	55.151	63.579	1.00 41.72	С	
ATOM 10452	CD1 T	RP C	94	38.440	53.861	63.794	1.00 37.65	C	
ATOM 10454	NE1 I	RP C	94	39.800	53.893	63.964	1.00 38.41	N	
ATOM 10456	CE2 I		94	40.213	55.197	63.962	1.00 41.29	С	
ATOM 10457	CD2 I		94	39.081	56.019	63.735	1.00 42.04	Ċ	
ATOM 10457	CE3 I		94	39.264	57.397	63.732	1.00 44.37	C	
ATOM 10458 ATOM 10460	CZ3 I		94	40.504	57.884	63.875	1.00 46.24	Č	
	CH2 T			41.596	57.059	64.053	1.00 46.24	C	
ATOM 10462			94					C	
ATOM 10464	CZ2 I	IRP C	94	41.473	55.715	64.076	1.00 44.06	C	

MOTA	10466	С	TRP	C	94	36.842	55.984	65.627	1.00	44.73	С
								65.277		50.14	0
ATOM	10467	0	TRP		94	37.890	55.418				
MOTA	10468	N	PRO	С	95	36.955	56.786	66.611	1.00	42.69	N
	10469	CA	PRO	C	95	37.708	56.193	67.739	1 00	39.74	С
MOTA	10471	CB	PRO	С	95	38.606	57.326	68.220	T.00	40.92	С
MOTP⊄	10474	CG	PRO	C	95	38.406	58.340	67.337	1.00	43.30	С
MOTA	10477	CD	PRO	C	95	37.050	58.218	66.504	1.00	45.08	C
МОТА	10480	С	PRO	C	95	36.737	55.730	68.741	1.00	37.51	С
										40.73	0
ATOM	10481	0	PRO	C	95	35.826	56.513	68.897			
MOTA	10482	N	THR	С	96	36.836	54.564	69.340	1.00	35.57	N
	10484	CA	THR	\overline{C}	96	36.133	54.302	70.597	1 00	35.67	C
MOTA	10486	CB	THR	С	96	36.506	52.995	71.300	1.00	34.47	C
ZΨOM	10488	OG1	THR	C	96	36.874	52.031	70.376	1.00	40.36	0
ATOM	10490	CG2	THR	С	96	35.298	52.345	71.897	T.00	34.45	С
ATOM	10494	C	THR	С	96	36.545	55.342	71.633	1.00	37.15	С
			THR		96	37.697	55.771	71.699	1 00	38.19	0
	10495	0									
MOTA	10496	N	THR	C	97	35.597	55.641	72.520	1.00	37.17	N
MOTA	10498	CA	THR	C	97	35.688	56.759	73.381	1.00	37.73	С
MOTA	10500	CB	THR	C	97	34.989	57.870	72.675		39.59	С
MOTA	10502	OG1	THR	C	97	35.841	58.260	71.625	1.00	39.41	0
							59.110	73.454		45.48	С
	10504	CG2			97	34.957					
ATOM	10508	С	THR	C	97	35.031	56.368	74.658	1.00	36.93	С
	10509	0	THR	C	97	34.132	55.590	74.698	1 00	36.08	0
ATOM	10510	N	$_{\mathrm{PHE}}$	С	98	35.522	56.933	75.731	1.00	38.65	N
ДПОМ	10512	CA	PHE	C	98	34.986	56.695	77.041	1.00	37.72	С
											Ċ
ATOM	10514	CB	PHE	C	98	36.159	56.124	77.902		37.47	
ATOM	10517	CG	PHE	С	98	36.606	54.763	77.485	1.00	34.26	С
	10518		PHE		98	37.578	54.609	76.544	1 00	35.84	С
ATOM	10520	CE1	PHE	С	98	38.002	53.331	76.187	1.00	34.75	С
ΔΨOM	10522	CZ	PHE	C	98	37.421	52.229	76.743	1.00	29.78	С
											C
MOTA	10524	CE2	PHE	C	98	36.491	52.389	77.668		29.34	
АТОМ	10526	CD2	PHE	C	98	36.090	53.645	78.051	1.00	31.59	C
						34.422	58.060	77.591	1 00	39.16	С
	10528	С	PHE		98						
MOTA	10529	0	$_{\mathrm{PHE}}$	С	98	34.737	59.159	77.062	1.00	40.05	0
Z) TTOM	10530	N	GLY	C	99	33.598	57.951	78.645	1 - 00	38.61	N
ATOM	10532	CA	GLY	С	99	33.116	59.091	79.423	1.00	40.58	С
АТОМ	10535	С	GLY	C	99	34.047	59.347	80.600	1.00	40.69	С
							58.511	80.838		39.99	0
ATOM	10536	0	GLY		99	34.881					
ATOM	10537	N	ALA	С	100	33.936	60.467	81.318	1.00	42.29	N
	10539	CA			100	34.929	60.800	82.331	1 00	43.08	С
ATOM	10541	CB	ALA	С	100	34.952	62.200	82.593	1.00	45.44	С
MOTA	10545	С	$\Delta T_1 \Delta$	C	100	34.704	60.073	83.615	1.00	43.15	С
										46.01	Ó
MOTA	10546	0	ALA	C	100	35.530	60.158	84.533			
ATOM	10547	N	GLY	С	101	33.582	59.386	83.698	1.00	42.22	N
	10549	CA			101	33.303	58.487	84.799	1 00	41.44	С
ATOM	10552	C	GLY	С	101	32.429	59.141	85.833	1.00	42.90	С
MOTA	10553	0	GLY	C.	101	32.196	60.338	85.710	1.00	43.82	0
									1 00	42 00	N
ATOM	10554	N			102	31.927	58.324	86.776		42.89	
ATOM	10556	CA	THR	С	102	31.102	58.722	87.925	1.00	44.84	С
	10558	СВ			102	29.615	58.489	87.561	1 00	45.99	С
ATOM	10560	OG1	THR	С	102	29.167	59.579	86.758	1.00	48.49	0
АТОМ	10562	CG2	THR	C	102	28.616	58.548	88.759	1.00	48.28	C
											С
ATOM	10566	С			102	31.537	57.838	89.083		44.23	
MOTA	10567	0	THR	C	102	31.749	56.657	88.885	1.00	43.22	0
	10568	N			103	31.688	58.393	90.278		45.21	N
ATOM	10570	CA	LYS	C	103	32.237	57.643	91.412		45.48	С
АТОМ	10572	CB	LYS	C	103	33.267	58.475	92.288	1.00	47.73	С
											Ċ
	10575	CG			103	34.082	57.608	93.362		48.87	
ATOM	10578	CD	LYS	С	103	35.298	58.255	93.982	1.00	53.95	С
	10581	CE			103	35.376	58.007	95.634		64.04	С
ATOM	10584	NZ	$_{ m LYS}$	С	103	34.907	59.016	96.915		61.58	N
ДПОМ	10588	С	T.Y C	C	103	31.069	57.287	92.237	1.00	46.12	С
MOTA	10589	0	LYS	C	103	30.196	58.112	92.468		48.00	0
	10590	N	LEU	C	104	31.042	56.098	92.776	1.00	46.17	N
								93.608		49.29	С
	10592	CA			104	29.904	55.784				
ATOM	10594	CB	LEU	С	104	29.523	54.342	93.380	1.00	49.15	C
ДΥОМ	10597	CG			104	28.282	53.863	94.082	1.00	53.47	C
A'I'OM	10599	CD1	LEU	С	104	27.166	54.601	93.392	1.00	56.73	С

ATOM 10603	CD2	LEU C	104	28.068	52.313	94.003	1 00	54.16	C
								51.44	C
ATOM 10607		LEU C		30.351	55.941	94.993			
ATOM 10608		LEU C		31.362	55.356	95.326		53.07	0
ATOM 10609	N	GLU C	105	29.662	56.720	95.796		53.36	N
ATOM 10611	CA	GLU C	105	29.914	56.710	97.228		56.53	С
ATOM 10613	CB	GLU C	105	30.270	58.104	97.697	1.00	58.68	С
ATOM 10616		GLU C		30.158	58.333	99.212	1.00	63.77	C
ATOM 10619		GLU C		30.265	59.803	99.573	1.00	68.90	С
ATOM 10620		GLU C		29.358	60.563	99.176		72.30	0
		GLU C		31.249		100.245		72.61	Ö
ATOM 10621								58.76	Ç
ATOM 10622		GLU C		28.705	56.246	98.031			
ATOM 10623		GLU C		27.599	56.744	97.824		59.09	0
ATOM 10624		LEU C		28.930	55.327	98.977		60.31	N
ATOM 10626	CA	LEU C	106	27.904	54.929	99.963		62.77	С
ATOM 10628	CB	LEU C	106	28.333	53.678	100.722	1.00	64.45	C
ATOM 10631	CG	LEU C	106	28.259	52.375	99.937	1.00	64.30	С
ATOM 10633	CD1	LEU C	106	28.586	51.154	100.833	1.00	67.13	C
ATOM 10637	CD2	LEU C	106	26.847	52.259	99.368	1.00	66.90	С
ATOM 10641		LEU C		27.715		100.994	1.00	64.27	С
ATOM 10642		LEU C		28.692		101.558		63.86	0
				26.474		101.274		65.47	N
ATOM 10643		LYS C						68.21	C
ATOM 10645		LYS C		26.248		102.447			C
ATOM 10647		LYS C		25.055		102.387		70.02	
ATOM 10650	CG	LYS C	: 107	24.467		101.031		69.45	С
ATOM 10653	CD	LYS C	107	23.340		101.174	1.00	75.00	С
ATOM 10656	CE	LYS C	107	21.839	59.052	101.327	1.00	80.27	C
ATOM 10659	NZ	LYS C	: 107	21.257	58.305	100.105	1.00	78.29	N
ATOM 10663	С	LYS C	107	26.191	56.193	103.612	1.00	70.40	C
ATOM 10664		LYS C		26.242	54.991	103.448	1.00	69.16	0
ATOM 10665		ARG C		26.094		104.795		55.67	N
ATOM 10003		ARG C		26.552		106.070		55.57	С
		ARG C		28.060		105.949		55.68	C
ATOM 10669								56.83	C
ATOM 10672		ARG C		28.725		107.046			
ATOM 10675		ARG C		29.579		107.866		57.77	C
ATOM 10678	NE	ARG C	: 108	29.552		109.288		57.84	И
ATOM 10680	CZ	ARG C	: 108	30.316		109.761		60.59	C
ATOM 10681	NH1	ARG C	108	31.146	54.248	108.965	1.00	62.42	И
ATOM 10684	NH2	ARG C	108	30.258	54.623	111.020	1.00	64.86	N
ATOM 10687	С	ARG C	108	26.229	57.307	107.130	1.00	54.10	C
ATOM 10688		ARG C		26.110	58.500	106.783	1.00	52.40	0
ATOM 10689		THR C		26.067		108.401	1.00	55.56	И
ATOM 10691		THR C		25.907		109.458		56.08	C
ATOM 10691 ATOM 10693		THR C		25.537		110.847		58.53	C
						111.278		58.94	Ó
ATOM 10695		THR C		26.528					C
ATOM 10697		THR C		24.244		110.836		60.67	
ATOM 10701	C	THR C	: 109	27.167	58.773	109.655		54.85	С
ATOM 10702	0	THR C	109	28.294		109.480		54.01	0
ATOM 10703	N	VAL C	110	26.945		110.058	1.00	55.32	И
ATOM 10705	CA	VAL C	110	28.021	60.900	110.341	1.00	55.05	С
ATOM 10707	CB	VAL C	110	27.434	62.253	110.890	1.00	56.58	С
ATOM 10709		VAL C		28.528	63.180	111.294	1.00	57.91	С
ATOM 10713		VAL C		26.507	62.970	109.873	1.00	55.27	С
ATOM 10713		VAL C		28.999		111.343		56.38	С
						112.392		57.15	Ö
ATOM 10718		VAL C		28.608				56.38	N
ATOM 10719		ALA C		30.277		110.979			
ATOM 10721		ALA C		31.305		111.847		57.80	C
ATOM 10723		ALA C		31.851		111.228		57.81	С
ATOM 10727	С	ALA C	111	32.433		112.064		57.43	С
ATOM 10728	0	ALA C	C 111	33.114	60.930	111.134	1.00	55.47	0
ATOM 10729	N	ALA C	112	32.619	60.918	113.317	1.00	59.73	N
ATOM 10731		ALA C		33.580		113.670	1.00	59.71	С
ATOM 10731		ALA C		33.324		115.064		61.97	С
ATOM 10733		ALA C		34.938		113.593		59.10	C
						113.881		60.02	0
ATOM 10738	0	ALA C		35.109				57.92	N
ATOM 10739	N	PRO C		35.869		113.125			
ATOM 10740	CA	PRO C		37.241		112.972		57.27	C
ATOM 10742	CB	PRO C		37.830		112.166		56.41	C
ATOM 10745	CG	PRO C	2 113	37.022	64.097	112.509	1.00	56.68	С

ATOM 10748	CD	PRO C	112	35.676	63 541	112.663	1.00 57.56	С
								C
ATOM 10751	С	PRO C		37.884		114.306	1.00 59.38	
ATOM 10752	0	PRO C	113	37.599	62.541	115.106	1.00 61.02	0
ATOM 10753	N	SER C	114	38.761	60.740	114.498	1.00 59.86	N
ATOM 10755	CA	SER C		39.630	60.699	115.606	1.00 62.67	С
		SER C				115.876	1.00 64.64	Č
ATOM 10757	CB			39.923				
ATOM 10760	OG	SER C	114	38.718		116.164	1.00 66.40	0
ATOM 10762	C	SER C	114	40.876	61.455	115.164	1.00 62.27	C
ATOM 10763	0	SER C	114	41.536	61.049	114.215	1.00 61.52	0
ATOM 10764		VAL C		41.212		115.849	1.00 64.21	N
								C
ATOM 10766		VAL C		42.412		115.568	1.00 64.84	
ATOM 10768	$^{\mathrm{CB}}$	VAL C	115	42.112	64.867	115.740	1.00 66.16	C
ATOM 10770	CG1	VAL C	115	43.187	65.745	115.105	1.00 65.30	C
ATOM 10774	CG2	VAL C	115	40.751	65,225	115.112	1.00 65.65	С
ATOM 10778	C	VAL C		43.656		116.413	1.00 67.80	С
								Ö
ATOM 10779	0	VAL C		43.555		117.547	1.00 71.74	
ATOM 10780	N	PHE C	116	44.834	63.156	115.822	1.00 67.72	N
ATOM 10782	CA	PHE C	116	46.130	62.702	116.329	1.00 69.88	C
ATOM 10784	CB	PHE C	116	46.381	61.247	115.944	1.00 69.43	C
ATOM 10787	CG	PHE C		45.304		116.387	1.00 69.98	С
								C
ATOM 10788		PHE C		44.217		115.575	1.00 66.04	
ATOM 10790	CE1	PHE C	116	43.240	59.211	115.989	1.00 68.00	C
ATOM 10792	CZ	PHE C	116	43.309	58.597	117.221	1.00 71.83	C
ATOM 10794	CE2	PHE C	116	44.367	58.840	118.040	1.00 75.85	C
ATOM 10796		PHE C		45.367		117.630	1.00 74.09	С
						115.687		Č
ATOM 10798	С	PHE C		47.217			1.00 69.39	
ATOM 10799	0	PHE C	116	47.290	63.629	114.457	1.00 67.03	0
ATOM 10800	N	ILE C	117	48.055	64.175	116.502	1.00 72.96	N
ATOM 10802	CA	ILE C	117	49.120	65.045	115.980	1.00 72.96	C
ATOM 10804	CB	ILE C		49.000		116.565	1.00 74.87	С
								C
ATOM 10806		ILE C		50.181		116.111	1.00 76.75	
ATOM 10809	CD1	ILE C	117	49.855	68.819	115.887	1.00 77.88	С
ATOM 10813	CG2	ILE C	117	48.837	66.451	118.062	1.00 79.54	C
ATOM 10817	C	ILE C	117	50.458	64.376	116.247	1.00 75.27	C
ATOM 10818	Ö	ILE C		50.557		117.210	1.00 79.55	0
								И
ATOM 10819	N	PHE C		51.457		115.387	1.00 74.30	
ATOM 10821	CA	PHE C	118	52.774	63.940	115.508	1.00 76.66	C
ATOM 10823	CB	PHE C	118	52.929	62.877	114.426	1.00 74.55	С
ATOM 10826	CG	PHE C	118	51.971	61.709	114.544	1.00 74.34	C
ATOM 10827		PHE C		50.831		113.735	1.00 73.64	С
						113.815	1.00 71.90	Ċ
ATOM 10829		PHE C		49.942				
ATOM 10831	CZ	PHE C	118	50.239	59.516	114.666	1.00 72.99	С
ATOM 10833	CE2	PHE C	118	51.383	59.572	115.442	1.00 74.93	C
ATOM 10835	CD2	PHE C	118	52.232	60.651	115.391	1.00 74.47	C
ATOM 10837	C	PHE C		53.975	64 915	115.393	1.00 78.41	С
						114.286	1.00 76.97	Ö
ATOM 10838	0	PHE C		54.268				
ATOM 10839	N	PRO C		54.675		116.500	1.00 82.21	N
ATOM 10840	CA	PRO C	119	55.920	65.957	116.393	1.00 84.25	C
ATOM 10842	CB	PRO C	119	56.542	65.838	117.779	1.00 88.82	C
ATOM 10845	CG	PRO C		55.382		118.696	1.00 89.91	C
		PRO C		54.374		117.892	1.00 85.44	C
ATOM 10848	CD							
ATOM 10851	С	PRO C		56.828		115.316	1.00 82.79	C
ATOM 10852	0	PRO C	119	56.648	64.125	114.994	1.00 82.06	0
ATOM 10853	N	PRO C	120	57.709	66.107	114.711	1.00 82.76	N
ATOM 10854	CA	PRO C		58.752	65.563	113.838	1.00 82.28	C
							1.00 82.97	Č
ATOM 10856	CB	PRO C		59.444		113.282		
ATOM 10859	CG	PRO C		59.057		114.183	1.00 85.25	C
ATOM 10862	CD	PRO C	120	57.728	67.580	114.747	1.00 84.01	C
ATOM 10865	С	PRO C	120	59.749	64.678	114.568	1.00 85.50	C
ATOM 10866	Ö	PRO C		60.140		115.715	1.00 90.03	0
ATOM 10867	N	SER C		60.184		113.886	1.00 84.53	N
ATOM 10869	CA	SER C	121	61.025		114.484	1.00 88.74	C
ATOM 10871	CB	SER C	121	60.927	61.392	113.675	1.00 87.48	C
ATOM 10874	OG	SER C		61.718		112.529	1.00 88.53	0
		SER C		62.513		114.538	1.00 92.58	Ċ
ATOM 10876	C							
ATOM 10877	0	SER C		62.974		113.830	1.00 92.02	0
ATOM 10878	И	ASP C	122	63.254		115.374	1.00 96.87	И
ATOM 10880	CA	ASP C	122	64.668	62.564	115.636	1.00100.88	C

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ATOM	10882	CB	ASP	С	122	65.21	L2 6	51.403	116.516	1.001	.06.35	С
ДΤОМ	10885	CG	ASP	C	122	64.93	30 6	61.583	118.022	1.001	.10.21	C
ATOM	10886	ODT	ASP	C	122	63.99	9 T	0∠.303	118.397		.09.83	0
ATOM	10887	OD2	ASP	С	122	65.61	LO 6	61.032	118.913	1.001	.15.97	0
$\Lambda \Psi \cap M$	10888	C	ASP	C	122	65.52	23 6	52 705	114.353	1 00	99.41	C
ATOM	10889	0	ASP	C	122	65.91	L9 6	3.808	113.992		97.33	0
ATOM	10890	N	GLU	С	123	65.76	51 6	61.552	113.698	1.00	99.99	И
	10892	CA	GLU	C	123	66.47	75 6	61 402	112.414	1 00	99.67	С
ATOM	10894	CB	GLU	С	123	66.17	/5 6	60.022	111.737	1.00	98.14	C
ATOM	10901	С	GLU	С	123	66.13	37 6	62.569	111.477	1.00	96.68	C
	10902	O	GLU			67.03		63 230	110.987	1 00	98.14	0
ATOM	10903	N	GLN	С	124	64.84	TT 6	62.842	111.273	1.00	93.61	N
ATOM	10905	CA	GLN	C	124	64.39	98 8	63.880	110.305	1.00	90.64	C
	10907		GLN			62.84		63 027	110.138		86.51	С
		CB										
ATOM	10910	CG	GLN	C	124	62.36	52 E	04.800	108.958	T.00	82.22	С
MOTA	10913	CD	GLN	С	124	60.86	59 (65.118	108.916	1.00	78.52	C
ΖυπΟΜ	10914	OE1	GLN	C	124	60.10	าล	64.980	109.888	1.00	75.18	0
											77.75	N
	10915	NE2	GLN			60.45			107.759			
MOTA	10918	C	GLN	С	124	64.95	56 6	65.278	110.658	1.00	92.63	С
MOTA	10919	0	GLN	С	124	65.54	41 6	65.966	109.784	1.00	92.86	0
	10920	N	LEU			64.78			111.917	1 00	94.07	N
ATOM	10922	CA	LEU	C	125	65.32			112.331		96.57	C
MOTA	10924	CB	LEU	С	125	64.89	96 6	67.338	113.755	1.00	98.49	C
ΔΨОΜ	10927	CG	LEU	C	125	63.93	33 6	68.526	113.913	1.00	97.09	C
												Č
ATOM	10929		LEU			62.84			114.932		96.51	
ATOM	10933	CD2	LEU	С	125	64.67	71 (69.836	114.312	1.00	99.62	C
ATOM	10937	С	LEU	С	125	66.85	57 6	66.986	112.192	1.001	.00.24	C
	10938	0	LEU	$^{\circ}$	125	67.46	53 6	68 054	112.104	1.001	.02.53	0
											.01.49	
AT-OM	10939	N	LYS			67.46			112.178			N
MOTA	10941	CA	LYS	С	126	68.90)2 (65.655	111.893	1.001	.05.04	C
MOTA	10943	CB	LYS	С	126	69.45	35 G	64.271	112.318	1.001	.07.49	C
	10950	С	LVS	~	126	69.17	71 6	65 943	110.397	1.001	.03.41	C
									110.076		.06.04	0
	10951	0			126	70.08						
MOTA	10952	N	SER	С	127	68.37	71 6	65.337	109.510	1.00	99.35	N
ATOM	10954	CA	SER	С	127	68.42	23 (65.607	108.082	1.00	97.89	С
	10956	СВ			127	67.35		64 775	107.347	1 00	95.15	C
ATOM	10959	OG			127	66.14			107.072		92.42	0
MOTA	10961	С	SER	С	127	68.22	27 (67.087	107.758	1.00	97.29	C
MOTA	10962	0	SER	С	127	68.57	71	67.510	106.671	1.00	97.87	0
	10963	N			128	67.65		67 860	108.685	1 00	96.84	N
MO'I'A	10965	$^{\rm CA}$	GLY	C	128	67.45			108.505		97.37	C
MOTA	10968	С	GLY	С	128	66.05	58 (69.738	108.039	1.00	94.13	C
MOTA	10969	0	GLY	C	128	65.83	32 7	70.917	107.753	1.00	94.42	0
	10970				129	65.09			107.976		91.09	N
		N										
ATOM	10972	CA	THR	С	129	63.73			107.773		88.29	C
MOTA	10974	CB	THR	С	129	63.24	45 6	68.917	106.341	1.00	86.24	C
ΔΤΟΜ	10976	OG1	THR	С	129	64.35	53 (69.086	105.439	1.00	88.83	0
						62.25			105.811		85.12	Ċ
	10978	CG2	THR									
ATOM	10982	С			129	62.73			108.882		86.18	C
MOTA	10983	0	THR	С	129	63.03	36 (67.960	109.684	1.00	87.16	0
ΔΤΟΜ	10984	N			130	61.59	93 (69.530	108.955	1 - 00	84.15	N
			ALA			60.52			109.908		81.98	C
	10986	CA										
MOTA	10988	CB			130	60.33			110.827	T.00	84.47	C
ATOM	10992	C	ALA	С	130	59.24	44 (68.958	109.157	1.00	78.03	C
	10993	0	ΔΤ.Δ	С	130	58.7	73 (69.810	108.392	1.00	76.36	0
	10994	N			131	58.70			109.369		76.12	N
MOTA	10996	CA			131	57.43			108.816		72.65	С
MOTA	10998	CB	SER	С	131	57.55	53 (66.111	107.877	1.00	70.72	C
	11001	OG			131	57.73			106.501	1.00	70.02	0
						56.49			110.011		72.77	č
	11003	C			131							
MOTA	11004	О			131	56.83			110.855		74.28	0
MOTA	11005	N	VAL	С	132	55.3	78	67.710	110.105	1.00	71.88	N
	11007	CA			132	54.4			111.239		72.03	C
									111.954		73.84	Ċ
	11009	CB			132	54.1						
MOTA	11011		VAL			53.49			113.281		75.05	C
ATOM	11015	CG2	VAL	С	132	55.4	43	69.693	112.128	1.00	77.41	C
	11019	С	VAL	С	132	53.19			110.658	1.00	69.08	C
	11020	0			132	52.7			109.685		67.17	Ō
AT ON	TT050	V	Λ 1.7.11	C	175	JZ . 1.	10	51.051	_00.000	1.00	J , . 1 /	O

7	MOT	11021	N	VAL	C	133	52.591	66 083	111.287	1 00	68.84	N
		11023	CA	VAL			51.465		110.700		66.13	C
		11025	CB	VAL			51.861		110.444		66.16	C
		11023		VAL			50.771		109.757		62.31	Ċ
				VAL			53.162		109.672		68.50	C
		11031									66.14	C
		11035	С	VAL			50.262		111.596			
		11036	0	VAL			50.346		112.772		68.15	0
		11037	N	CYS			49.125		110.990		64.89	N
		11039	CA	CYS			47.844		111.575		64.95	C
		11041	CB	CYS			46.938		111.408		65.26	C
7	MOTA	11044	sg	CYS			46.037		112.941		72.19	S
I	MOTA	11045	C	CYS			47.197		110.858		62.06	С
I	MOTA	11046	0	CYS			47.449		109.674		61.20	0
I	MOTA	11047	N	LEU			46.337		111.568		61.40	N
I	MOTE	11049	CA	LEU			45.617		111.027		58.71	С
7	MOTA	11051	CB	LEU	С	135	46.183		111.655		60.46	С
I	MOTF	11054	CG	LEU	С	135	45.430	59.670	111.520	1.00	61.31	С
7	MOTA	11056		$_{ m LEU}$			45.114		110.103		60.36	С
7	MOTF	11060	CD2	LEU	С	135	46.276		112.078	1.00	63.76	C
Z	MOTA	11064	С	LEU	С	135	44.221	62.435	111.468	1.00	57.46	С
1	MOTF	11065	0	LEU	С	135	43.984	62.674	112.610	1.00	58.68	0
Z	MOTF	11066	N	LEU	С	136	43.282	62.449	110.566	1.00	56.07	N
7	MOTF	11068	CA	LEU	С	136	41.871	62.381	110.951	1.00	56.20	С
1	MOTA	11070	CB	LEU	С	136	41.019	63.385	110.192	1.00	54.74	C
7	MOTF	11073	CG	LEU	С	136	41.477	64.822	109.904	1.00	55.75	C
2	MOTF	11075	CD1	LEU	С	136	40.252	65.754	109.846	1.00	56.08	С
7	MOTA	11079	CD2	LEU	С	136	42.517	65.363	110.864	1.00	57.95	С
7	MOTA	11083	C	LEU	С	136	41.455	60.970	110.567	1.00	56.76	С
2	MOTA	11084	0	LEU	С	136	41.558	60.579	109.377	1.00	54.98	0
		11085	N	ASN	С	137	41.010	60.175	111.543	1.00	59.04	N
		11087	CA	ASN	С	137	40.813	58.746	111.242	1.00	60.23	C
Z	MOTA	11089	CB	ASN	С	137	41.551	57.792	112.223	1.00	63.94	C
		11092	CG	ASN			41.899	56.418	111.560	1.00	66.89	С
		11093		ASN			41.856	56.288	110.338	1.00	70.32	0
		11094		ASN			42.199	55.407	112.361	1.00	71.93	N
		11097	С	ASN			39.365	58.402	111.194	1.00	58.92	С
		11098	0	ASN			38.607	58.929	111.965	1.00	59.90	0
		11099	N	ASN			39.015	57.519	110.275	1.00	58.00	N
		11101	CA	ASN			37.670	56.976	110.095	1.00	57.80	С
		11103	CB	ASN			37.502	55.768	110.969	1.00	60.82	С
		11106	CG	ASN			38.594	54.763	110.761	1.00	63.86	С
		11107		ASN			39.038	54.501	109.625	1.00	64.97	0
		11108		ASN			39.057	54.201	111.853	1.00	67.79	N
		11111	C	ASN			36.531	57.965	110.296	1.00	56.57	С
		11112	0	ASN			35.732		111.235	1.00	57.27	0
		11113	N	PHE			36.479		109.420	1.00	54.48	N
		11115	CA	PHE			35.331		109.404	1.00	53.81	С
		11117	CB	PHE			35.790		109.616		53.42	С
		11120	CG	PHE			36.608		108.508		51.95	С
		11121		PHE			36.007		107.425		50.55	С
		11123		PHE			36.768		106.395		50.36	С
		11125	CZ			139	38.144		106.440		48.23	C
		11127		PHE			38.739		107.503		49.74	C
		11129		PHE			37.976		108.536		50.89	Ċ
		11131	C	PHE			34.416		108.162		52.65	Ċ
		11132	0	PHE			34.751		107.164		50.71	Ō
		11133	N			140	33.241		108.281		52.90	N
		11135	CA	TYR			32.274		107.190		53.13	C
									107.034		54.47	C
		11137	CB	TYR		140	31.467 30.597		107.034		55.53	C
		11140	CG CD1						103.814		56.84	C
		11141		TYR			31.066		104.599		56.96	C
		11143		TYR			30.306					C
		11145	CZ			140	29.054		103.533		58.04	0
		11146	OH			140	28.331		102.372		60.87	С
		11148		TYR			28.565		104.720		57.39	С
		11150		TYR			29.344		105.851		56.47	C
		11152	C			140	31.327		107.646		53.37	0
2	MOTA	11153	0	TYR	С	140	30.973	φ1.600	108.799	T.00	54.87	0

ATOM	11154	N	PRO	С	141	30.932	62.477	106.799	1.00	52.72	N
ΣπОм	11155	CA	PRO	C	141	31.297	62.520	105.408	1.00	52.43	С
								104.835		53.29	С
	11157	СВ	PRO			30.176					
ATOM	11160	CG	PRO	С	141	29.996	64.367	105.828		53.92	С
ATOM	11163	CD	PRO	С	141	30.119	63.638	107.168	1.00	53.63	C
	11166	C	PRO			32.700	63 141	105.142	1 00	51.46	С
ATOM	11167	0	PRO	Ċ	141	33.371	63.582	106.018		50.16	0
ATOM	11168	N	ARG	С	142	33.106	63.171	103.880	1.00	52.37	N
λπΩM	11170	CA	ARG	C	142	34.467	63.464	103.538	1.00	52.21	C
										53.40	C
	11172	CB	ARG			34.734		102.077			
MOTA	11175	CG	ARG	С	142	36.078	63.698	101.630	1.00	56.32	С
ATOM	11178	CD	ARG	C	142	36.554	63.071	100.360	1.00	60.42	C
			ARG			37.713	63.814	99.826	1 00	62.68	N
	11181	NE									
MOTA	11183	CZ	ARG	C	142	38.378	63.446	98.735		62.72	C
MOTA	11184	NH1	ARG	C	142	37.965	62.338	98.098	1.00	67.02	N
$\Delta \Psi \cap M$	11187	NH2	ARG	C	142	39.433	64.150	98.286	1.00	59.04	N
										52.89	C
	11190	С	ARG			34.803		103.799			
MOTA	11191	0	ARG	С	142	35.994	65.178	104.043	1.00	52.87	0
АТОМ	11192	N	GLU	С	143	33.813	65.776	103.712	1.00	54.26	N
	11194	CA	GLU			34.158		103.987	1 00	56.18	С
											c
AT'OM	11196	CB	GLU			33.053		103.642		58.86	
MOTA	11199	CG	GLU	С	143	33.596	69.598	103.729	1.00	63.26	C
ΣΥ⊓ОМ	11202	CD	GLU	C	143	32.567	70.696	103.455	1.00	70.77	C
			GLU			31.399		103.939		72.09	0
	11203										
ATOM	11204	OE2	GLU	С	143	32.940	71.714	102.782	1.00	74.74	0
ATOM	11205	С	GLU	С	143	34.663	67.386	105.427	1.00	55.52	C
	11206	0	GLU			33.912	67.386	106.409	1.00	55.37	0
										55.94	N
	11207	N	ALA			35.975		105.516			
ATOM	11209	$^{\rm CA}$	ALA	C	144	36.665	67.970	106.712	1.00	57.00	C
МОТА	11211	CB	ALA	C	144	37.587	66.852	107.213	1.00	55.95	C
	11215		ALA			37.478		106.372		58.66	С
		C									
ATOM	11216	0	ALA	С	144	37.631	69.622	105.214		59.65	0
ATOM	11217	N	LYS	C	145	38.038	69.884	107.380	1.00	59.98	И
ZATI OM	11219	CA	T.YS	C	145	38.880	71 055	107.194	1.00	62.18	C
								107.181		65.67	C
	11221	CB			145	37.975					
MOTA	11224	CG	LYS	С	145	38.627	73.759	107.072	1.00	70.00	С
MOTA	11227	CD	LYS	С	145	37.728	74.817	107.895	1.00	74.41	C
	11230	CE			145	37.394		107.210	1 00	78.41	C
A'I'OM	11233	NZ			145	37.443		105.690		76.16	N
ATOM	11237	C	LYS	C	145	39.948	71.077	108.306	1.00	62.49	C
АТОМ	11238	0	LYS	C	145	39.714	70.784	109.493	1.00	62.13	0
					146	41.152		107.909		63.00	N
	11239	N									
ATOM	11241	$^{\rm CA}$	VAL	С	146	42.268	/1.334	108.824	T.00	63.55	C
MOTA	11243	CB	VAL	С	146	43.183	70.193	108.431	1.00	61.33	C
ΣΨΩМ	11245	CG1	VAL	C	146	44.510	70.267	109.248	1.00	63.03	C
			VAL			42.446		108.609		58.25	C
	11249										
MOTA	11253	С	VAL	С	146	43.060		108.730		66.29	C
MOTA	11254	0	VAL	С	146	43.628	72.875	107.681	1.00	66.84	0
	11255	N	GLM	C	147	43.095		109.817	1.00	68.87	N
										72.37	C
	11257	CA			147	43.905		109.882			
MOTA	11259	CB	GLN	С	147	43.099	75.734	110.396	1.00	76.83	С
MOTA	11262	CG	GLN	С	147	42.317	76.514	109.337	1.00	77.62	C
	11265	CD			147	41.165		109.930	1 00	80.53	C
	11266	OE1	GLN	С	14/	41.367		110.283		88.62	0
MOTA	11267	NE2	GLN	С	147	39.980	76.775	110.015	1.00	74.96	N
MOTA	11270	С	GLM	C	147	45.058	74.207	110.804	1.00	72.82	C
						44.920		111.778		71.65	Õ
	11271	0			147						
MOTA	11272	N	TRP	C	148	46.224		110.443		74.99	И
	11274	CA	TRP	С	148	47.392	74.550	111.287	1.00	76.89	C
	11276	CB			148	48.588		110.465	1.00	74.83	С
											Č
	11279	CG			148	48.711		110.138		70.59	
MOTA	11280	CD1	TRP	С	148	48.353	72.042	108.978	1.00	67.59	C
ATOM	11282		TRP			48.676	70.711	108.984	1.00	63.05	N
			TRP			49.305		110.155		65.79	С
	11284										
	11285		TRP			49.343		110.905		69.46	C
ATOM	11286	CE3	TRP	С	148	49.938	71.526	112.141	1.00	72.82	C
	11288		TRP			50.457		112.584	1.00	71.92	C
								111.822		68.74	Ċ
ATOM	11290	CHZ	TRP	C	148	50.410	09.202	TTT.052	T.00	00.74	C

ATOM 11292	C7.2	TRP	С	148	49.838	69.223	110.603	1.00 67.06	С
ATOM 11294	C	TRP			47.705		111.937	1.00 82.80	С
ATOM 11294	Ö	TRP			47.740		111.243	1.00 84.38	0
					47.929		113.262	1.00 85.63	N
ATOM 11296	N	LYS							C
ATOM 11298	CA	LYS			48.203		114.050	1.00 91.54	
ATOM 11300	CB	LYS			47.065		115.063	1.00 94.11	C
ATOM 11303	CG	LYS	С	149	45.657	77.643	114.457	1.00 92.57	C
ATOM 11306	CD	LYS	С	149	44.608	77.959	115.522	1.00 95.47	C
ATOM 11309	CE	LYS	С	149	43.170	77.612	115.088	1.00 93.07	С
ATOM 11312	NZ	LYS	С	149	42.369	76.679	116.029	1.00 90.06	N
ATOM 11316	C	LYS	С	149	49.548	76.978	114.773	1.00 93.58	С
ATOM 11317	Ō	LYS			49.876		115.279	1.00 91.51	0
ATOM 11318	N	VAL			50.315		114.807	1.00 97.73	N
ATOM 11310 ATOM 11320	CA	VAL			51.624		115.384	1.00100.07	C
					52.631		114.275	1.00 99.22	C
ATOM 11322	CB	VAL							C
ATOM 11324		VAL			54.029		114.828	1.00104.37	
ATOM 11328	CG2	VAL			52.601		113.333	1.00 93.65	С
ATOM 11332	C	VAL	С	150	51.629		116.329	1.00107.01	C
ATOM 11333	0	VAL	С	150	51.874	80.369	115.916	1.00111.28	0
ATOM 11334	N	ASP	С	151	51.334	78.985	117.600	1.00109.29	N
ATOM 11336	CA	ASP	С	151	51.128	80.083	118.573	1.00116.46	C
ATOM 11338	CB	ASP	С	151	52.361	81.004	118.708	1.00121.70	С
ATOM 11341	CG	ASP			53.612	80.265	119.111	1.00119.58	С
ATOM 11342		ASP			53.619		120.194	1.00118.15	0
ATOM 11342 ATOM 11343		ASP			54.640		118.410	1.00116.55	Ō
		ASP			49.927		118.156	1.00118.10	C
ATOM 11344	C							1.00124.53	Ö
ATOM 11345	0	ASP			49.762		118.615		
ATOM 11346	N	ASN			49.106		117.273	1.00112.89	N
ATOM 11348	CA	ASN			47.884		116.737	1.00113.81	С
ATOM 11350	CB	ASN	С	152	46.964	81.550	117.853	1.00119.38	C
ATOM 11353	CG	ASN	С	152	46.467	80.472	118.794	1.00117.08	С
ATOM 11354	OD1	ASN	С	152	45.498	79.741	118.489	1.00111.65	0
ATOM 11355	ND2	ASN	С	152	47.133	80.356	119.948	1.00119.53	N
ATOM 11358	С	ASN	С	152	48.039	82.015	115.598	1.00115.75	С
ATOM 11359	Ō	ASN			47.197		115.467	1.00119.93	0
ATOM 11360	N	ALA			49.086		114.773	1.00113.90	И
ATOM 11362	CA	ALA			49.016		113.383	1.00112.97	C
					50.362		112.914	1.00115.78	C
ATOM 11364	CB	ALA							C
ATOM 11368	C	ALA			48.582		112.489	1.00105.40	
ATOM 11369	0	ALA			49.190		112.536	1.00100.44	0
ATOM 11370	N	LEU			47.490		111.738	1.00104.22	N
ATOM 11372	CA	LEU	C	154	47.062		110.725	1.00 98.09	С
ATOM 11374	CB	$_{ m LEU}$	С	154	45.803	80.913	109.980	1.00 99.06	С
ATOM 11377	CG	LEU	С	154	44.449	80.931	110.712	1.00100.59	С
ATOM 11379	CD1	LEU	С	154	44.035	82.369	111.263	1.00107.76	C
ATOM 11383	CD2	LEU	С	154	43.376	80.317	109.788	1.00 96.43	C
ATOM 11387	C	LEU			48.178	80.250	109.706	1.00 96.18	С
ATOM 11388	Ö	LEU			48.764		109.238	1.00 99.72	0
ATOM 11389	N	GLN			48.466		109.357	1.00 90.49	N
		GLN			49.477		108.346	1.00 88.65	C
ATOM 11391	CA							1.00 84.72	C
ATOM 11393	CB	GLN			50.264		108.660		
ATOM 11396	CG	GLN			51.045		109.970	1.00 85.90	С
ATOM 11399	CD	GLN			51.946		110.099	1.00 91.43	С
ATOM 11400	OE1	GLN	С	155	52.738		109.204	1.00 93.14	0
ATOM 11401	NE2	GLN	С	155	51.820	79.336	111.198	1.00 95.40	N
ATOM 11404	С	GLN	C	155	48.752	78.564	107.025	1.00 86.54	С
ATOM 11405	0	GLN			47.599	78.120	106.959	1.00 84.02	0
ATOM 11406	N	SER			49.404		105.966	1.00 87.95	N
ATOM 11408	CA	SER			48.872		104.665	1.00 86.39	C
ATOM 11410	CB	SER			47.818		104.245	1.00 89.74	Ċ
		SER			48.427		103.581	1.00 95.70	Ö
ATOM 11413	OG						103.561	1.00 86.84	C
ATOM 11415	C	SER			50.039				
ATOM 11416	0	SER			51.075		103.873	1.00 88.72	0
ATOM 11417	N	GLY			49.867		102.735	1.00 84.26	N
ATOM 11419	CA	GLY			50.836		101.684	1.00 85.21	C
ATOM 11422	С	GLY			52.001		102.070	1.00 82.75	C
ATOM 11423	0	GLY	С	157	52.857		101.247	1.00 83.43	0
ATOM 11424	N	ASN	С	158	52.019	76.050	103.302	1.00 80.64	N

ATOM 11426	CA ASN C 158	53.087 75.180 103.820 1.00 79.04	С
ATOM 11428	CB ASN C 158	53.786 75.891 104.976 1.00 81.79	С
			Ċ
ATOM 11431	CG ASN C 158		
ATOM 11432	OD1 ASN C 158	51.593 76.497 105.840 1.00 85.42	0
ATOM 11433	ND2 ASN C 158	53.315 76.578 107.292 1.00 87.62	N
ATOM 11436	C ASN C 158	52.554 73.770 104.259 1.00 74.13	С
ATOM 11437	O ASN C 158	53.185 73.076 105.074 1.00 72.30	0
ATOM 11438	N SER C 159	51.392 73.365 103.719 1.00 71.66	N
ATOM 11440	CA SER C 159	50.788 72.052 104.073 1.00 67.90	С
		49.729 72.128 105.214 1.00 66.13	Ċ
ATOM 11442	CB SER C 159		
ATOM 11445	OG SER C 159	48.749 73.114 105.020 1.00 64.64	0
ATOM 11447	C SER C 159	50.183 71.335 102.905 1.00 66.31	C
ATOM 11448	O SER C 159	49.609 71.959 102.030 1.00 68.14	0
ATOM 11449	N GLN C 160	50.291 70.012 102.916 1.00 64.19	N
ATOM 11451	CA GLN C 160	49.644 69.174 101.896 1.00 62.64	С
ATOM 11453	CB GLN C 160	50.677 68.532 100.993 1.00 63.54	C
ATOM 11456	CG GLN C 160	51.374 69.456 100.096 1.00 65.64	C
			č
ATOM 11459	CD GLN C 160		
ATOM 11460	OE1 GLN C 160	52.193 68.544 98.030 1.00 70.43	0
ATOM 11461	NE2 GLN C 160	53.480 68.295 99.904 1.00 66.25	N
ATOM 11464	C GLN C 160	48.905 68.054 102.548 1.00 59.52	С
ATOM 11465	O GLN C 160	49.353 67.499 103.546 1.00 58.40	0
ATOM 11466	N GLU C 161	47.794 67.673 101.945 1.00 58.74	N
ATOM 11468	CA GLU C 161	47.020 66.559 102.487 1.00 56.88	С
ATOM 11470		45.748 67.079 103.199 1.00 57.07	Č
			Ċ
ATOM 11473	CG GLU C 161	44.936 68.196 102.543 1.00 59.02	
ATOM 11476	CD GLU C 161	43.833 68.709 103.487 1.00 61.54	С
ATOM 11477	OE1 GLU C 161	44.130 69.229 104.606 1.00 63.55	0
ATOM 11478	OE2 GLU C 161	42.647 68.567 103.133 1.00 61.99	0
ATOM 11479	C GLU C 161	46.653 65.492 101.497 1.00 55.11	С
ATOM 11480	O GLU C 161	46.532 65.801 100.352 1.00 55.99	0
ATOM 11481	N SER C 162	46.556 64.230 101.937 1.00 53.99	N
		45.689 63.253 101.252 1.00 54.45	Ċ
ATOM 11483			c
ATOM 11485	CB SER C 162	46.338 61.980 100.687 1.00 54.88	
ATOM 11488	OG SER C 162	47.640 61.877 100.980 1.00 54.80	0
ATOM 11490	C SER C 162	44.599 62.743 102.111 1.00 53.51	С
ATOM 11491	O SER C 162	44.721 62.768 103.346 1.00 53.28	0
ATOM 11492	N VAL C 163	43.602 62.185 101.394 1.00 53.67	N
ATOM 11494	CA VAL C 163	42.504 61.396 101.915 1.00 52.73	С
ATOM 11496	CB VAL C 163	41.162 61.948 101.478 1.00 52.14	C
	CG1 VAL C 163	40.071 61.623 102.477 1.00 52.07	č
ATOM 11498			
ATOM 11502	CG2 VAL C 163	41.242 63.407 101.328 1.00 53.45	C
ATOM 11506	C VAL C 163	42.564 60.049 101.289 1.00 54.59	С
ATOM 11507	O VAL C 163	43.085 59.875 100.212 1.00 56.88	0
ATOM 11508	N THR C 164	41.975 59.088 101.948 1.00 55.77	N
ATOM 11510	CA THR C 164	41.851 57.795 101.389 1.00 58.56	C
ATOM 11512	CB THR C 164	41.900 56.737 102.484 1.00 59.66	С
ATOM 11514	OG1 THR C 164	42.914 57.079 103.426 1.00 59.99	Ō
		42.467 55.366 101.889 1.00 64.68	Č
ATOM 11516	CG2 THR C 164		
ATOM 11520	C THR C 164	40.566 57.687 100.624 1.00 59.35	C
ATOM 11521	O THR C 164	39.597 58.310 100.908 1.00 58.00	0
ATOM 11522	N GLU C 165	40.579 56.823 99.639 1.00 62.70	N
ATOM 11524	CA GLU C 165	39.368 56.246 99.108 1.00 63.98	С
ATOM 11526	CB GLU C 165	39.764 55.246 98.035 1.00 68.42	C
ATOM 11529	CG GLU C 165	40.394 55.913 96.779 1.00 74.03	C
ATOM 11532	CD GLU C 165	39.509 57.028 96.100 1.00 78.67	C
	OE1 GLU C 165		Ö
ATOM 11533			
ATOM 11534	OE2 GLU C 165	40.078 57.978 95.467 1.00 80.96	0
ATOM 11535	C GLU C 165	38.537 55.561 100.192 1.00 62.40	Ċ
ATOM 11536	O GLU C 165	39.094 55.035 101.158 1.00 62.62	0
ATOM 11537	N GLN C 166	37.206 55.570 100.001 1.00 61.60	N
ATOM 11539	CA GLN C 166	36.190 55.023 100.958 1.00 60.28	С
ATOM 11541	CB GLN C 166	34.789 55.255 100.390 1.00 60.22	Ċ
	CG GLN C 166	33.671 54.930 101.352 1.00 60.01	Č
ATOM 11544			C
ATOM 11547	CD GLN C 166	32.343 55.571 101.001 1.00 57.99	
ATOM 11548	OE1 GLN C 166	31.947 55.629 99.846 1.00 60.56	0
ATOM 11549	NE2 GLN C 166	31.631 55.984 102.008 1.00 56.87	N
ATOM 11552	C GLN C 166	36.369 53.544 101.355 1.00 61.82	C

ATOM 11553	0	GIN (C 166	36.668	52.732	100.536	1.00 63.96	0
ATOM 11554	N		C 167	36.172		102.611	1.00 61.44	И
ATOM 11556	CA		C 167	36.546		103.107	1.00 65.73	С
ATOM 11558	CB		C 167	36.746		104.586	1.00 65.19	С
ATOM 11561	CG		C 167	37.345		105.181	1.00 72.04	С
ATOM 11562		ASP (36.669		105.326	1.00 75.74	0
ATOM 11562 ATOM 11563		ASP (38.529		105.587	1.00 76.75	Ō
ATOM 11565 ATOM 11564	C	ASP (35.428		102.904	1.00 69.41	Č
ATOM 11564 ATOM 11565	0		C 167	34.325		103.348	1.00 68.59	Ö
			C 167	35.692		102.272	1.00 74.58	И
ATOM 11566 ATOM 11568	N		C 168	34.612		101.949	1.00 74.30	C
	CA			35.157		101.188	1.00 78.10	Ċ
ATOM 11570	CB		C 168				1.00 83.31	0
ATOM 11573	OG		C 168	36.431		101.689	1.00 84.88	C
ATOM 11575	C		C 168	33.831		103.227	1.00 78.77	Ö
ATOM 11576	0		C 168	32.616		103.318	1.00 78.19	И
ATOM 11577	N		C 169	34.533		104.227		C
ATOM 11579	CA		C 169	33.923		105.543	1.00 81.36	C
ATOM 11581	CB		C 169	34.976		106.508	1.00 84.06	C
ATOM 11584	CG		C 169	35.667		106.043	1.00 90.82	
ATOM 11587	CD		C 169	37.176		106.502	1.00 92.25	C
ATOM 11590	CE		C 169	37.919		105.925	1.00 98.14	C
ATOM 11593	ΝZ		C 169	37.925		106.880	1.00104.47	N
ATOM 11597	С		C 169	33.080		106.300	1.00 76.62	C
ATOM 11598	0		C 169	31.880		106.429	1.00 77.24	0
ATOM 11599	N		C 170	33.703		106.806	1.00 72.36	N
ATOM 11601	CA		C 170	32.992		107.525	1.00 68.94	C
ATOM 11603	СВ	ASP (33.753		108.779	1.00 68.28	C
ATOM 11606	CG		C 170	35.172		108.499	1.00 68.33	C
ATOM 11607			C 170	35.669		107.357	1.00 68.00	0
ATOM 11608	OD2		C 170	35.903		109.425	1.00 71.49	0
ATOM 11609	С		C 170	32.608		106.662	1.00 65.16	C
ATOM 11610	0		C 170	32.043		107.137	1.00 61.37	0
ATOM 11611	N		C 171	32.914		105.374	1.00 65.83	N
ATOM 11613	CA	SER	C 171	32.547		104.369	1.00 63.62	C
ATOM 11615	CB	SER	C 171	31.104	52.585	103.921	1.00 64.50	C
ATOM 11618	OG	SER	C 171	30.278	53.545	104.481	1.00 62.30	0
ATOM 11620	С	SER	C 171	32.857	54.392	104.719	1.00 59.93	C
ATOM 11621	0	SER	C 171	32.140	55.332	104.368	1.00 58.66	0
ATOM 11622	N	THR	C 172	34.017	54.602	105.330	1.00 59.37	И
ATOM 11624	CA	THR	C 172	34.528		105.707	1.00 55.85	С
ATOM 11626	CB	THR	C 172	34.674	55.962	107.198	1.00 55.89	С
ATOM 11628	OG1	THR	C 172	35.487	57.071	107.513	1.00 59.13	0
ATOM 11630	CG2	THR	C 172	35.511	54.826	107.712	1.00 57.10	C
ATOM 11634	С	THR	C 172	35.897	56.403	105.084	1.00 53.92	C
ATOM 11635	0	THR	C 172	36.617	55.676	104.436	1.00 54.08	0
ATOM 11636	N	TYR	C 173	36.228		105.324	1.00 52.30	N
ATOM 11638	CA	TYR	C 173	37.479	58.291	104.859	1.00 51.46	C
ATOM 11640	CB	TYR	C 173	37.166	59.643	104.193	1.00 49.71	C
ATOM 11643	CG	TYR	C 173	36.218	59.481	103.061	1.00 49.79	C
ATOM 11644	CD1	TYR	C 173	34.872	59.517	103.254	1.00 49.00	С
ATOM 11646	CE1	TYR	C 173	34.033	59.333	102.222	1.00 52.19	C
ATOM 11648	CZ	TYR	C 173	34.545	59.096	100.980	1.00 53.46	С
ATOM 11649	OH	TYR	C 173	33.727	58.910	99.884	1.00 58.02	0
ATOM 11651	CE2	TYR	C 173	35.868	59.059	100.794	1.00 52.66	С
ATOM 11653	CD2	TYR	C 173	36.680	59.236	101.810	1.00 51.00	C
ATOM 11655	С	TYR	C 173	38.513	58.493	105.961	1.00 51.35	C
ATOM 11656	0	TYR	C 173	38.240	58.326	107.138	1.00 51.36	0
ATOM 11657	N		C 174	39.701		105.547	1.00 51.83	N
ATOM 11659	CA		C 174	40.799		106.484	1.00 52.31	C
ATOM 11661	CB		C 174	41.538		106.747	1.00 54.03	C
ATOM 11664	OG		C 174	41.293		108.023	1.00 52.58	0
ATOM 11666	C		C 174	41.742		105.881	1.00 51.52	C
ATOM 11667	Ö		C 174	42.203		104.801	1.00 52.07	0
ATOM 11668	Ŋ		C 175	42.048		106.587	1.00 51.86	N
ATOM 11670	CA		C 175	42.874		106.019	1.00 52.36	C
ATOM 11672	CB		C 175	42.244		106.309	1.00 51.94	C
ATOM 11675	CG		C 175	42.542		105.400	1.00 51.62	C
ATOM 11673			C 175	41.344		104.572	1.00 50.59	Č
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ATO	M 11681	CD2	LEU	С	175	42.946	65.915	106.230	1.00 52.90	C
AΤC	M 11685	C	LEU	C	175	44.220	62.353	106.658	1.00 54.29	C
	M 11686	0	LEU			44.426		107.718	1.00 55.77	0
									1.00 55.63	N
ATC	M 11687	N	SER	C	176	45.160		106.029		
ATC	M 11689	CA	SER	С	176	46.416	63.293	106.700	1.00 56.66	C
	M 11691	CB	SER	C	176	47.413	62.207	106.400	1.00 57.54	С
						48.503	-	105.728	1.00 61.11	0
	M 11694	OG	SER							
ATC	M 11696	С	SER	С	176	46.915	64.623	106.226	1.00 57.20	С
AΤC	M 11697	0	SER	C	176	46.943	64.902	105.017	1.00 56.36	0
		N	SER			47.292		107.193	1.00 58.72	N
	M 11698									c
ATC	M 11700	$^{\rm CA}$	SER			47.898		106.878	1.00 59.21	
ATO	M 11702	CB	SER	С	177	47.171	67.915	107.543	1.00 59.79	C
ል ጥር	M 11705	OG	SER			47.283	69.028	106.687	1.00 61.45	0
						49.295		107.325	1.00 59.52	
	M 11707	С	SER							
ATO	M 11708	0	SER	С	177	49.564	66.372	108.408	1.00 59.47	
ATO	M 11709	N	THR	С	178	50.183	67.147	106.438	1.00 60.76	N
	OM 11711	CA	THR			51.600	67 208	106.743	1.00 62.63	С
									1.00 62.33	
ATC	M 11713	CB	THR			52.400		105.865		
ATO	M 11715	OG1	THR	С	178	52.028	64.884	106.194	1.00 62.25	
ΆͲC	OM 11717	CG2	THR	С	178	53.836	66.288	106.225	1.00 63.69	C
	OM 11721	C	THR			52.063		106.630	1.00 64.52	С
ATO	OM 11722	0	THR			52.212		105.532	1.00 65.27	
ATO	OM 11723	И	LEÜ	С	179	52.186	69.261	107.800	1.00 66.36	
አ ጥረ	OM 11725	CA	LEU	C	179	52.856	70.552	107.944	1.00 69.87	С
								109.294	1.00 71.47	
	OM 11727	CB	LEU			52.540				
AT(OM 11730	ÇĢ	LEU	С	179	53.257	72.492	109.522	1.00 75.84	
ATO	OM 11732	CD1	LEU	С	179	52.876	73.551	108.468	1.00 78.63	C
	OM 11736	CD2	LEU	C	179	52.886	72.972	110.888	1.00 79.77	C
									1.00 71.38	
ATO	OM 11740	С	LEU			54.370		107.757		
AT(OM 11741	0	LEU	С	179	55.035		108.367	1.00 71.08	0
AΠC	OM 11742	N	THR	C	1.80	54.892	71.257	106.871	1.00 73.42	N
			THR			56.279		106.515	1.00 75.49	
	OM 11744	CA								
AT(OM 11746	CB	THR	С	180	56.400	70.535	105.098	1.00 74.91	
AT(OM 11748	OG1	THR	C	180	55.394	69.499	104.878	1.00 70.42	0
	OM 11750	CG2				57.757	69.818	104.953	1.00 76.14	C
									1.00 79.35	
A'I'	OM 11754	С	THR			57.016		106.671		
AT(OM 11755	0	$_{ m THR}$	С	180	56.499	73.558	106.316	1.00 80.35	0
ΑТО	OM 11756	N	LEU	С	181	58.218	72.376	107.238	1.00 81.53	Ŋ
					181	59.046		107.698	1.00 86.10	C
	OM 11758	CA								
A'I'	OM 11760	CB			181	58.626		109.107	1.00 87.52	
ATO	OM 11763	CG	LEU	С	181	57.270	74.495	109.258	1.00 88.57	C
$\Delta T C$	OM 11765	CD1	LEU	C	181	57.123	74.780	110.767	1.00 91.29	C
			LEU			57.124		108.372	1.00 92.28	C
	OM 11769									
ATO	OM 11773	С	LEU	Ç	181	60.531		107.790	1.00 87.89	
ATO	OM 11774	0	LEU	С	181	60.834	72.002	108.185	1.00 87.01	. 0
ΔͲί	OM 11775	N	SER	C	182	61.451	74.058	107.498	1.00 90.99	N
						62.872		107.637	1.00 92.84	C
	OM 11777	CA			182					
ATO	OM 11779	CB	SER	С	182	63.746		107.014	1.00 96.46	
ATO	OM 11782	OG	SER	С	182	64.103	75.790	107.977	1.00 99.90) 0
ΔͲα	OM 11784	С			182	63.126	73.614	109.129	1.00 94.76	c C
								109.888	1.00 96.46	
	OM 11785	0			182	62.526				
ATO	OM 11786	Ñ	$_{ m LYS}$	С	183	63.973		109.562	1.00 95.19	
AΠ	OM 11788	CA	LYS	C	183	64.345	72.530	111.001	1.00 97.89) C
	OM 11790	CB			183	65.603		111.218	1.00 99.64	
								111.670	1.00102.52	
A1'	OM 11797	С	TXS	C	183	64.651				
AT	OM 11798	0	LYS	С	183	64.684		112.904	1.00105.22	0
	OM 11799	N			184	64.965	74.851	110.850	1.00104.32	N
					184	65.255		111.322	1.00109.49	
	OM 11801	CA								
AT	OM 11803	CB			184	65.910		110.192	1.00111.80	
AT	OM 11807	C	ALA	С	184	64.015	76.946	111.857	1.00109.86	5 C
	OM 11808	0			184	64.043		112.937	1.00113.60) 0
								111.075	1.00106.51	
	OM 11809	N			185	62.940				
AT	OM 11811	CA	ASP	С	185	61.677		111.468	1.00106.54	
AТ	OM 11813	CB	ASP	С	185	60.662	77.485	110.312	1.00103.12	2 C
	OM 11816	CG			185	61.105		109.052	1.00106.48	5 C
								109.095	1.00110.53	
	OM 11817		ASP			61.944				
AT	OM 11818	OD2	ASP	С	185	60.608	78.007	107.935	1.00108.38	
AΤ	OM 11819	С	ASP	С	185	61.087	76.833	112.689	1.00104.72	2 C

ATOM	11820	0	ASP C	185	60.448	77.451	113.547	1.00107.05	(0
	11821	N	TYR C		61.307		112.758	1.00100.91	1	N
	11823	CA	TYR C		60.650		113.761	1.00 99.44	(C
	11825	CB	TYR C	186	60.821	73.215	113.428	1.00 95.52	(С
ATOM	11828	CG	TYR C	186	60.182	72.269	114.423	1.00 94.50	(С
	11829	CD1	TYR C	186	58.820	72.302	114.676	1.00 92.95	(С
	11831		TYR C	186	58.228	71.416	115.611	1.00 92.00	(C
	11833	CZ	TYR C	186	59.018	70.511	116.287	1.00 92.21	(C
ATOM	11834	OH	TYR C	186	58.475	69.656	117.188	1.00 90.68		0
ATOM	11836	CE2	TYR C	186	60.364	70.460	116.052	1.00 95.55	(C
MOTA	11838	CD2	TYR C	186	60.948	71.339	115.126	1.00 96.74	(C
ATOM	11840	С	TYR C	186	61.198	75.043	115.143	1.00104.67	(C
MOTA	11841	0	TYR C	186	60.414	75.165	116.098	1.00106.10	(0
ATOM	11842	N	GLU C	187	62.532	75.225	115.226	1.00107.76	1	И
MOTA	11844	CA	GLU C	187	63.227	75.577	116.466	1.00112.95	(C
ATOM	11846	CB	GLU C	187	64.703	75.893	116.196	1.00115.75	(C
MOTA	11853	C	GLU C	187	62.516	76.763	117.096	1.00116.87	(С
MOTA	11854	0	GLU C	187	62.133	76.705	118.270	1.00119.20	•	0
MOTA	11855	N	LYS C	188	62.254		116.272	1.00117.68		N
ATOM	11857	CA	LYS C	188	61.806	79.119	116.728	1.00123.34	(C
MOTA	11859	CB	LYS C	188	62.258	80.186	115.693	1.00125.15		С
MOTA	11866	С	LYS C	188	60.293		117.137	1.00122.83		C
MOTA	11867	0	LYS C	188	59.870		117.337	1.00127.37		0
MOTA	11868	N	HIS C		59.498		117.295	1.00118.14		N
	11870	CA	HIS C		58.118		117.838	1.00118.23		С
	11872	CB	HIS C		57.039		116.701	1.00113.37		C
	11875	CG	HIS C		57.197		115.718	1.00115.83		C
	11876		HIS C		56.933		116.040	1.00122.53		N
	11878		HIS C		57.218		115.011	1.00123.27		C
	11880		HIS C		57.650		114.025 114.440	1.00118.61 1.00114.31		N C
	11882 11884	CD2	HIS C		57.647 57.835		118.865	1.00114.31		C
	11885	0	HIS C		58.396		118.757	1.00114.30		0
	11886	N	LYS C		56.965		119.843	1.00119.39		N
	11888	CA	LYS C		56.663		120.870	1.00119.33		C
	11890	CB	LYS C		56.311		122.220	1.00126.70		C
	11897	С	LYS C		55.537	75.659	120.451	1.00113.38		C
ATOM	11898	0	LYS C	190	55.777	74.497	120.119	1.00109.64	•	0
ATOM	11899	N	VAL C	191	54.318	76.222	120.457	1.00113.48	1	N
MOTA	11901	CA	VAL C	191	53.055	75.504	120.222	1.00108.33		C
MOTA	11903	CB	VAL C	191	51.789	76.364	120.601	1.00110.82		C
	11905		VAL C		50.492		120.279	1.00106.29		С
	11909		VAL C		51.761		122.048	1.00117.81		C
	11913	С	VAL C		52.932		118.762	1.00102.06		C
	11914	0	VAL C		53.386		117.927	1.00101.58		0
	11915	N	TYR C		52.284		118.493	1.00 97.43		N
	11917	CA	TYR C		51.969		117.156	1.00 91.95		C
	11919	CB	TYR C		53.046		116.731	1.00 89.41		C C
	11922 11923	CG CD1	TYR C		54.216 55.338		116.212 116.990	1.00 90.36		C
	11925		TYR C		56.440		116.506	1.00 99.63		C
	11927	CZ	TYR C		56.404		115.220	1.00 96.17		C
	11928	OH	TYR C		57.487		114.715	1.00 99.78		Ö
	11930		TYR C		55.283		114.450	1.00 90.48		C
	11932		TYR C		54.194		114.961	1.00 87.27		C
	11934	C	TYR C		50.653		117.135	1.00 89.66		C
	11935	Ō	TYR C		50.545		117.772	1.00 89.20		0
	11936	N	ALA C	193	49.684		116.352	1.00 88.28		N
	11938	CA	ALA C		48.281	72.900	116.635	1.00 87.68		C
MOTA	11940	CB	ALA C		47.569	74.139	117.180	1.00 91.96	1	C
ATOM	11944	С	ALA C	193	47.588	72.431	115.403	1.00 83.46	1	С
MOTA	11945	0	ALA C		47.920		114.312	1.00 83.57		0
	11946	N	CYS C		46.602		115.588	1.00 81.07		И
	11948	CA	CYS C		45.912		114.502	1.00 76.76		C
	11950	CB	CYS C		46.244		114.509	1.00 74.32		C
	11953	SG	CYS C		45.544		113.051	1.00 76.90		S
	11954	C	CYS C		44.444		114.783	1.00 76.26		C O
HA IT ()IVI	11955	0	CYS C	134	43.916	10.003	115.720	1.00 77.18	'	U

ATOM	11056	N	GLU	C	195	43.790	72 021	113.991	1 00	75.58	N
		CA	GLU			42.376		114.203		75.90	C
ATOM .										80.39	C
ATOM .		CB	GLU			42.230		114.332			
ATOM .		CG	GLU			40.824		114.736		83.63	С
ATOM .	11966	CD	GLU	С	195	40.380	75.689	114.059	1.00	87.24	С
ATOM .	11967	OE1	GLU	С	195	41.166	76.308	113.301	1.00	87.78	0
ATOM :	11968	OE2	GLU	С	195	39.230	76.118	114.284	1.00	89.97	0
ATOM :		С	GLU	С	195	41.369	71.845	113.145	1.00	71.74	С
ATOM		0	GLU			41.127		112.070		70.64	0
ATOM 3		N	VAL			40.744		113.531		69.55	И
								112.708		65.72	C
ATOM :		CA	VAL			39.805					
MOTA		CB	VAL			39.792		113.122		63.49	C
ATOM .	11977	CG1	VAL	С	196	38.864		112.277		60.95	С
ATOM .	11981	CG2	VAL	С	196	41.195	67.993	113.025	1.00	62.64	С
ATOM :	11985	C	VAL	С	196	38.388	70.591	112.830	1.00	66.93	С
ATOM :	11986	0	VAL	С	196	37.907	70.990	113.890	1.00	68.84	0
ATOM :		N	THR			37.727	70.587	111.693	1.00	65.22	N
ATOM :		CA	THR			36.375		111.555		66.67	С
			THR			36.395		110.849		68.91	C
ATOM :		CB									
MOTA		OG1				37.268		111.567		73.48	0
MOTA		CG2	THR			35.026		110.862		70.65	С
ATOM :	11999	С	THR	С	197	35.623	70.042	110.718	1.00	64.04	С
ATOM .	12000	0	THR	С	197	36.033	69.666	109.600	1.00	62.98	0
ATOM :	12001	N	HIS	С	198	34.511	69.574	111.243	1.00	64.16	N
ATOM :	12003	CA	HIS	С	198	33.842	68.464	110.617	1.00	61.33	C
ATOM		CB	HIS			34.562		110.973	1.00	59.74	С
ATOM :		CG	HIS			33.971		110.287		58.02	C
										57.39	N
ATOM :			HIS			34.128		108.936			
ATOM :			HIS			33.441		108.594		56.71	С
MOTA	12013	NE2	HIS	С	198	32.826		109.663		54.74	И
MOTA	12015	CD2	HIS	C	198	33.140	64.993	110.736	1.00	55.73	C
ATOM :	12017	С	HIS	С	198	32.439	68.464	111.115	1.00	62.12	С
ATOM :	12018	0	HIS	С	198	32.191	68.978	112.181	1.00	65.48	0
ATOM :		N	GLN			31.529		110.337		60.45	N
ATOM		CA	GLN			30.113		110.673		61.89	C
			GLN			29.321		109.531		60.84	C
ATOM :		CB									
ATOM :		CG	GLN			27.791		109.465		62.62	C
MOTA	12029	CD	GLN			27.118		108.272		62.17	C
MOTA	12030	OE1	GLN	С	199	27.603	66.780	107.132	1.00	62.44	0
MOTA	12031	NE2	GLN	С	199	26.021	66.130	108.541	1.00	62.82	И
ATOM	12034	С	GLN	С	199	29.881	67.134	111.977	1.00	62.72	C
ATOM	12035	0	GLN	С	199	28.947	67.431	112.702	1.00	64.57	0
ATOM		N	GLY			30.759		112.294		61.62	N
			GLY			30.553		113.435		62.79	C
ATOM		CA									C
ATOM		С	GLY			31.172		114.730		65.81	
MOTA	12042	0	GLY	С	200	31.463	64.929	115.553		68.31	0
ATOM :	12043	N	\mathbf{LEU}	С	201	31.378		114.910		67.08	И
ATOM	12045	CA	LEU			32.111	67.693	116.042	1.00	69.26	С
ATOM	12047	CB	LEU	С	201	33.565	67.903	115.686	1.00	67.39	C
ATOM		CG	LEU			34.388	66.703	115.257	1.00	64.11	C
ATOM			LEU			35.552		114.421		62.77	С
ATOM			LEU			34.886		116.436		66.42	C
								116.339		73.17	C
ATOM		С	LEU			31.490					
ATOM		0	LEU			31.436		115.455		72.65	0
MOTA	12062	N			202	31.017		117.568		77.26	N
ATOM	12064	CA	SER	С	202	30.015	70.328	117.787		81.12	C
ATOM	12066	CB	SER	С	202	29.362	70.258	119.187	1.00	85.90	C
ATOM		OG	SER	С	202	29.672	69.042	119.838	1.00	85.41	0
ATOM		C			202	30.667		117.561		82.89	С
ATOM		0			202	30.102		116.969		83.10	Ō
					202	31.868		118.085		84.21	N
ATOM		N									C
ATOM		CA			203	32.746		117.732		86.10	
ATOM		CB			203	32.963		118.912		92.36	C
ATOM		OG			203	33.402		120.003		93.55	0
MOTA	12082	С	SER	С	203	34.044	72.186	117.323	1.00	83.05	С
MOTA	12083	0	SER	С	203	34.262	70.983	117.626	1.00	81.22	0
ATOM		N	PRO	С	204	34.873	72.948	116.593	1.00	82.81	N
ATOM		CA			204	36.239		116.233		79.98	С
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ATOM 12087 (CB PRO C 204	36.927 73.854 115.86	3 1.00 82.52	С
	CG PRO C 204	35.815 74.803 115.47		C
	CD PRO C 204	34.522 74.253 115.99		С
ATOM 12096 (C PRO C 204	37.021 71.856 117.35		С
ATOM 12097 (O PRO C 204	36.880 72.153 118.54	8 1.00 85.19	0
ATOM 12098 N	N VAL C 205	37.859 70.933 116.95	0 1.00 76.65	N
	CA VAL C 205	38.675 70.224 117.87	2 1.00 77.69	С
	CB VAL C 205	38.367 68.781 117.78		C
	CG1 VAL C 205	39.541 67.929 118.24		С
	CG2 VAL C 205	37.123 68.551 118.60	2 1.00 76.84	С
ATOM 12112 (C VAL C 205	40.101 70.505 117.53	5 1.00 77.92	C
ATOM 12113 (O VAL C 205	40.492 70.477 116.39	1 1.00 75.11	0
ATOM 12114 N	N THR C 206	40.873 70.789 118.56	6 1.00 82.28	N
	CA THR C 206	42.253 71.122 118.41		С
	CB THR C 206	42.454 72.498 118.95		C
	OG1 THR C 206	41.528 73.357 118.28		0
	CG2 THR C 206	43.880 73.065 118.60		С
ATOM 12126 (C THR C 206	43.102 70.134 119.14	1 1.00 83.61	C
ATOM 12127 C	O THR C 206	42.741 69.648 120.19	3 1.00 86.65	0
ATOM 12128 N	N LYS C 207	44.257 69.863 118.56	3 1.00 82.04	N
ATOM 12130 C	CA LYS C 207	45.180 68.869 119.06	0 1.00 82.54	C
	CB LYS C 207	45.015 67.583 118.26		C
	CG LYS C 207	43.851 66.746 118.74		C
	CD LYS C 207	44.253 65.776 119.85		C
	CE LYS C 207	43.082 65.543 120.82		С
ATOM 12144 N	NZ LYS C 207	43.103 64.157 121.31		N
ATOM 12148 C	C LYS C 207	46.566 69.432 118.86	6 1.00 83.38	С
ATOM 12149 C	O LYS C 207	46.950 69.716 117.72	7 1.00 79.79	0
ATOM 12150 N	N SER C 208	47.307 69.585 119.97	4 1.00 88.00	N
ATOM 12152 C	CA SER C 208	48.616 70.245 119.94	0 1.00 89.86	С
	CB SER C 208	48.480 71.696 120.40		С
	OG SER C 208	48.739 71.839 121.78		Ö
	C SER C 208	49.701 69.477 120.70		C
	O SER C 208	49.485 68.338 121.10		0
	N PHE C 209	50.881 70.092 120.84		N
	CA PHE C 209	52.047 69.472 121.48		С
	CB PHE C 209	52.583 68.375 120.58		С
ATOM 12168 (CG PHE C 209	53.213 68.915 119.35		С
ATOM 12169 (CD1 PHE C 209	54.542 69.293 119.35	4 1.00 92.49	С
ATOM 12171 C	CE1 PHE C 209	55.156 69.817 118.23	2 1.00 90.22	C
ATOM 12173 C	CZ PHE C 209	54.445 69.986 117.09	3 1.00 86.31	С
ATOM 12175 C	CE2 PHE C 209	53.081 69.625 117.06	3 1.00 85.26	С
ATOM 12177 C	CD2 PHE C 209	52.471 69.103 118.19		С
	C PHE C 209	53.203 70.469 121.74		Ċ
	O PHE C 209	53.169 71.618 121.26		0
	N ASN C 210	54.241 69.987 122.45		N
	CA ASN C 210	55.489 70.740 122.69		C
	CB ASN C 210	56.296 70.878 121.37		С
	CG ASN C 210	57.652 71.550 121.52		C
	OD1 ASN C 210	58.002 72.407 120.71	0 1.00103.98	0
ATOM 12190 N	ND2 ASN C 210	58.447 71.118 122.49	3 1.00110.21	N
ATOM 12193 C	C ASN C 210	55.024 72.070 123.29	8 1.00113.97	С
	O ASN C 210	55.282 73.132 122.74		Ō
	N ARG C 211	54.328 71.954 124.44		N
	CA ARG C 211	53.444 72.976 125.06		C
	CB ARG C 211	54.110 74.377 125.15		С
	C ARG C 211	52.005 73.001 124.42		C
	O ARG C 211	51.034 73.584 124.92		0
	OXT ARG C 211	51.618 72.421 123.38		0
ATOM 12211 N	N ALA D 1	41.982 30.461 82.27	7 1.00 57.00	N
ATOM 12213 C	CA ALA D 1	41.459 31.172 81.01	3 1.00 55.46	С
	CB ALA D 1	39.904 31.400 81.09		Ċ
	C ALA D 1	42.126 32.481 80.52		C
	O ALA D 1	43.285 32.669 80.74		0
	N VAL D 2	41.421 33.378 79.85		Ŋ
	CA VAL D 2	42.079 34.564 79.21		C
	CB VAL D 2	41.096 35.532 78.48		C
ATOM 12229 (CG1 VAL D 2	41.905 36.738 77.91	5 1.00 40.38	С

ATOM 1223	3 CG2	VAL	D	2	40.388	34.848	77.355	1.00 39.69	С
ATOM 1223		VAL		2	42.842	35.498	80.122	1.00 44.26	С
ATOM 1223		VAL		2	42.298	36.058	81.022	1.00 44.63	0
ATOM 1223		GLN		3	44.102	35.758	79.839	1.00 45.24	N
ATOM 1224		GLN		3	44.919	36.578	80.772	1.00 45.86	C
ATOM 1224		GLN		3	45.720	35.704	81.745	1.00 48.64	C
ATOM 1224		GLN		3	44.864	34.972	82.827	1.00 51.62	Č
		GLN			45.710	34.463	84.014	1.00 59.14	C
ATOM 1224				3		34.642	84.062	1.00 62.63	0
ATOM 1225		GLN		3	46.947			1.00 62.83	N
ATOM 1225		GLN		3	45.053	33.840	84.973	1.00 62.87	C
ATOM 1225		GLN		3	45.815	37.442	79.938		0
ATOM 1225		GLN		3	46.250	36.962	78.925	1.00 44.39	
ATOM 1225		LEU		4	46.002	38,713	80.310	1.00 42.40	N
ATOM 1225		LEU		4	46.977	39.641	79.686	1.00 40.47	C
ATOM 1226		LEU		4	46.256	40.846	79.083	1.00 37.49	C
ATOM 1226		LEU		4	45.152	40.660	78.040	1.00 36.95	C
ATOM 1226		LEU		4	45.432	41.577	76.858	1.00 36.62	C
ATOM 1226		LEU		4	45.043	39.356	77.504	1.00 39.31	C
ATOM 1227		LEU		4	47.969	40.192	80.723	1.00 41.49	С
ATOM 1227	4 0	LEU	D	4	47.599	40.842	81.665	1.00 41.51	0
ATOM 1227	5 N	LYS	D	5	49.250	39.970	80.549	1.00 43.23	N
ATOM 1227	7 CA	LYS	D	5	50.217	40.446	81.543	1.00 45.14	С
ATOM 1227	9 CB	LYS	D	5	50.892	39.284	82.282	1.00 48.88	C
ATOM 1228	32 CG	LYS	D	5	49.903	38.536	83.266	1.00 54.47	C
ATOM 1228	5 CD	LYS	D	5	50.560	37.297	83.990	1.00 60.79	C
ATOM 1228	88 CE	LYS	D	5	49.635	36.013	83.904	1.00 63.31	C
ATOM 1229	1 NZ	$_{ m LYS}$	D	5	50.408	34.721	84.358	1.00 69.55	N
ATOM 1229	95 C	LYS	D	5	51.231	41.305	80.900	1.00 43.29	С
ATOM 1229)6 O	LYS	D	5	51.789	40.931	79.897	1.00 43.73	0
ATOM 1229	97 N	GLN	D	6	51.474	42.461	81.495	1.00 42.41	И
ATOM 1229	9 CA	GLN	D	6	52.383	43.434	80.924	1.00 41.52	C
ATOM 1230	1 CB	GLN	D	6	51.796	44.835	81.003	1.00 40.15	C
ATOM 1230)4 CG	GLN	D	6	50.406	44.997	80.357	1.00 39.53	C
ATOM 1230	7 CD	GLN	D	6	49.771	46.341	80.616	1.00 38.13	C
ATOM 1230)8 OE1	GLN	D	6	50.442	47.334	80.783	1.00 39.92	0
ATOM 1230	9 NE2	GLN	D	6	48.468	46.370	80.597	1.00 40.10	N
ATOM 1231	.2 C	GLN	D	6	53.668	43.410	81.676	1.00 43.59	C
ATOM 1231		GLN	D	6	53.675	43.182	82.887	1.00 43.49	0
ATOM 1231		SER	D	7	54.749	43.568	80.920	1.00 44.87	И
ATOM 1231		SER	D	7	56.016	44.080	81.435	1.00 48.01	C
ATOM 1233		SER	D	7	57.107	42.989	81.406	1.00 51.52	С
ATOM 1232		SER	D	7	57.386	42.519	80.095	1.00 51.53	0
ATOM 1232		SER		7	56.521	45.303	80.675	1.00 47.70	C
ATOM 1232		SER		7	56.324	45.395	79.469	1.00 46.37	0
ATOM 1232		GLY		8	57.216	46.210	81.364	1.00 50.18	N
ATOM 1232		GLY		8	57.911	47.315	80.713	1.00 50.86	С
ATOM 1233		GLY	_	8	58.393	48.422	81.619	1.00 52.58	С
ATOM 1233		GLY		8	57.780	48.763	82.605	1.00 51.07	0
ATOM 1233		PRO		9	59.516	49.021	81.266	1.00 56.53	N
ATOM 1233		PRO		9	60.030	50.159	82.043	1.00 58.30	С
ATOM 1233		PRO		9	61.288	50.586	81.284	1.00 61.09	С
ATOM 1233		PRO		9	61.824	49.267	80.591	1.00 62.53	C
ATOM 1234		PRO		9	60.435	48.657	80.162	1.00 58.96	C
ATOM 123		PRO		9	59.005	51.228	82.035	1.00 56.45	C
ATOM 123		PRO		9	58.635	51.619	80.919	1.00 55.51	0
ATOM 1234		GLY		10	58.485	51.541	83.237	1.00 56.24	N
ATOM 123		GLY		10	57.666	52.714	83.525	1.00 54.81	C
ATOM 123		GLY		10	58.271	54.154	83.662	1.00 55.43	Č
				10	57.660	55.095	83.144	1.00 53.49	Ö
ATOM 123		GLY LEU		11	59.401	54.365	84.340	1.00 56.80	N
ATOM 123					60.044	55.699	84.289	1.00 57.96	C
ATOM 123		LEU		11			85.329	1.00 57.30	C
ATOM 123		LEU		11	61.148	55.834		1.00 62.40	C
ATOM 123		LEU		11	61.792	57.218	85.406	1.00 62.40	C
ATOM 123		LEU		11	60.836	58.390	85.187		C
ATOM 123		LEU		11	62.429	57.397	86.726	1.00 63.46	C
ATOM 123		LEU		11	60.627	55.983	82.904	1.00 57.05	
ATOM 123		LEU		11	61.347	55.208	82.383	1.00 58.70	O M
ATOM 123'	72 N	VAL	ע	12	60.292	57.085	82.291	1.00 55.69	N

ATOM 12374	CA VA	L D	12	60.629	57.284	80.914	1.00 55.00		С
ATOM 12376			12	59.409	57.062	80.020	1.00 52.03		C
							1.00 54.04		C
ATOM 12378	CG1 VA		12	59.667	57.583	78.591			
ATOM 12382	CG2 VA		12	59.123	55.658	79.921	1.00 50.83		C
ATOM 12386	C VA	LD	12	61.019	58.701	80.732	1.00 56.49	1	C
ATOM 12387	O VA	LD	12	60.264	59.589	81.020	1.00 55.45		0
ATOM 12388	N GL	N D	13	62.182	58.916	80.163	1.00 59.59	-	N
ATOM 12390	CA GL	N D	13	62.707	60.278	80.045	1.00 62.52		С
ATOM 12392			13	64.212	60.305	79.899	1.00 65.71		C
			13	64.776	60.399	81.258	1.00 69.08		C
ATOM 12395									
ATOM 12398			13	66.219	60.422	81.271	1.00 77.09		C
ATOM 12399	OE1 GL		13	66.874	60.460	80.225	1.00 81.75		0
ATOM 12400	NE2 GL	N D	13	66.770	60.414	82.464	1.00 82.68		N
ATOM 12403	C GL	N D	13	62.064	60.980	78.931	1.00 61.31		C
ATOM 12404	O GL	N D	13	61.775	60.374	77.918	1.00 60.31		0
ATOM 12405			14	61.769	62.245	79.137	1.00 62.39		N
ATOM 12406			14	61.018	62.986	78.155	1.00 61.94		C
							1.00 63.94		C
ATOM 12408			14	60.741	64.296	78.849			
ATOM 12411			14	61.829	64.410	79.730	1.00 66.71		C
ATOM 12414	CD PR	D C	14	62.070	63.082	80.291	1.00 64.87		С
ATOM 12417	C PR	O D	14	61.835	63.107	76.888	1.00 63.56		С
ATOM 12418	O PR	O D	14	63.036	63.175	76.841	1.00 63.90		0
ATOM 12419	N SE	R D	15	61.050	62.965	75.841	1.00 62.98		N
ATOM 12421			15	61.451	62.904	74.452	1.00 64.41		С
ATOM 12423			15	62.324	64.072	74.064	1.00 67.55		C
ATOM 12426			15	63.444	63.478	73.590	1.00 66.46		0
ATOM 12428			15	62.057	61.533	74.072	1.00 64.44		C
ATOM 12429	O SE	R D	15	62.277	61.275	72.902	1.00 65.45		0
ATOM 12430	N GL	M D	16	62.212	60.620	75.032	1.00 64.20		N
ATOM 12432	CA GL	N D	16	62.561	59.213	74.717	1.00 63.39		C
ATOM 12434			16	63.626	58.733	75.704	1.00 65.81		C
ATOM 12437			16	64.952	58.300	75.040	1.00 71.75		С
ATOM 12437			16	65.920	58.044	76.159	1.00 80.91		C
ATOM 12441	OE1 GL		16	65.494	58.154	77.339	1.00 85.18		0
ATOM 12442			16	67.191	57.708	75.856	1.00 83.89		N
ATOM 12445	C GL	N D	16	61.346	58.241	74.614	1.00 57.84		C
ATOM 12446	O GL	N D	16	60.221	58.667	74.789	1.00 56.16		0
ATOM 12447	N SE	R D	17	61.557	56.958	74.323	1.00 56.20		N
ATOM 12449	CA SE	R D	17	60.435	56.035	74.025	1.00 53.11		C
ATOM 12451			 17	60.826	55.185	72.839	1.00 53.56		C
			17	61.347	53.954	73.336	1.00 55.78		0
ATOM 12454									C
ATOM 12456			17 -	59.885	55.054	75.152	1.00 50.62		
ATOM 12457	O SE	R D	17				4 00 50 45		
ATOM 12458				60.571	54.565	75.997	1.00 53.47		0
	N LE		18	58.624	54.565 54.752	75.997 75.101	1.00 53.47 1.00 46.73		
ATOM 12460		U D							0
ATOM 12460	CA LE	n d d n	18	58.624	54.752	75.101	1.00 46.73		O N
ATOM 12460 ATOM 12462	CA LE	D D D D D D	18 18 18	58.624 57.978 56.567	54.752 53.917 54.511	75.101 76.046 76.298	1.00 46.73 1.00 44.77 1.00 42.30	;	O N C C
ATOM 12460 ATOM 12462 ATOM 12465	CA LE CB LE CG LE	ם ט ס ט ס ט	18 18 18 18	58.624 57.978 56.567 55.563	54.752 53.917 54.511 53.620	75.101 76.046 76.298 76.986	1.00 46.73 1.00 44.77 1.00 42.30 1.00 40.07	:	O N C C
ATOM 12460 ATOM 12462 ATOM 12465 ATOM 12467	CA LE CB LE CG LE CD1 LE	0 0 0 0 0 0 0 0	18 18 18 18 18	58.624 57.978 56.567 55.563 56.090	54.752 53.917 54.511 53.620 53.066	75.101 76.046 76.298 76.986 78.283	1.00 46.73 1.00 44.77 1.00 42.30 1.00 40.07 1.00 41.41		O N C C C
ATOM 12460 ATOM 12462 ATOM 12465 ATOM 12467 ATOM 12471	CA LE CB LE CG LE CD1 LE CD2 LE	0 0 0 0 0 0 0 0 0 0	18 18 18 18 18	58.624 57.978 56.567 55.563 56.090 54.332	54.752 53.917 54.511 53.620 53.066 54.437	75.101 76.046 76.298 76.986 78.283 77.255	1.00 46.73 1.00 44.77 1.00 42.30 1.00 40.07 1.00 41.41 1.00 41.25		0 N C C C C
ATOM 12460 ATOM 12462 ATOM 12465 ATOM 12467 ATOM 12471 ATOM 12475	CA LE CB LE CG LE CD1 LE CD2 LE C LE	0 U U U U U U U U U U U U U U U U U U U	18 18 18 18 18 18	58.624 57.978 56.567 55.563 56.090 54.332 57.806	54.752 53.917 54.511 53.620 53.066 54.437 52.599	75.101 76.046 76.298 76.986 78.283 77.255 75.327	1.00 46.73 1.00 44.77 1.00 42.30 1.00 40.07 1.00 41.41 1.00 41.25 1.00 43.93		0 N C C C C C C
ATOM 12460 ATOM 12462 ATOM 12465 ATOM 12467 ATOM 12471	CA LE CB LE CG LE CD1 LE CD2 LE C LE	0 U U U U U U U U U U U U U U U U U U U	18 18 18 18 18	58.624 57.978 56.567 55.563 56.090 54.332	54.752 53.917 54.511 53.620 53.066 54.437	75.101 76.046 76.298 76.986 78.283 77.255 75.327 74.292	1.00 46.73 1.00 44.77 1.00 42.30 1.00 40.07 1.00 41.41 1.00 41.25 1.00 43.93 1.00 42.76		0 N C C C C C C C
ATOM 12460 ATOM 12462 ATOM 12465 ATOM 12467 ATOM 12471 ATOM 12475	CA LE CB LE CG LE CD1 LE CD2 LE C LE O LE		18 18 18 18 18 18	58.624 57.978 56.567 55.563 56.090 54.332 57.806	54.752 53.917 54.511 53.620 53.066 54.437 52.599	75.101 76.046 76.298 76.986 78.283 77.255 75.327	1.00 46.73 1.00 44.77 1.00 42.30 1.00 40.07 1.00 41.41 1.00 41.25 1.00 43.93		0 N C C C C C C
ATOM 12460 ATOM 12462 ATOM 12465 ATOM 12467 ATOM 12471 ATOM 12475 ATOM 12476 ATOM 12477	CA LE CB LE CG LE CD1 LE CD2 LE C LE O LE N SE	U D U D U D U D U D U D U D U D	18 18 18 18 18 18 18	58.624 57.978 56.567 55.563 56.090 54.332 57.806 57.148 58.323	54.752 53.917 54.511 53.620 53.066 54.437 52.599 52.565	75.101 76.046 76.298 76.986 78.283 77.255 75.327 74.292	1.00 46.73 1.00 44.77 1.00 42.30 1.00 40.07 1.00 41.41 1.00 41.25 1.00 43.93 1.00 42.76		0 N C C C C C C C
ATOM 12460 ATOM 12462 ATOM 12465 ATOM 12467 ATOM 12471 ATOM 12475 ATOM 12476 ATOM 12477 ATOM 12479	CA LE CB LE CG LE CD1 LE CD2 LE C LE O LE N SE CA SE	U D U D U D U D U D U D U D R D R D	18 18 18 18 18 18 18 18 18	58.624 57.978 56.567 55.563 56.090 54.332 57.806 57.148 58.323 58.085	54.752 53.917 54.511 53.620 53.066 54.437 52.599 52.565 51.506 50.145	75.101 76.046 76.298 76.986 78.283 77.255 75.327 74.292 75.879 75.341	1.00 46.73 1.00 44.77 1.00 42.30 1.00 40.07 1.00 41.41 1.00 41.25 1.00 43.93 1.00 42.76 1.00 44.90 1.00 43.56		0 N C C C C C C C C O N C
ATOM 12460 ATOM 12462 ATOM 12465 ATOM 12467 ATOM 12471 ATOM 12475 ATOM 12476 ATOM 12477 ATOM 12479 ATOM 12481	CA LE CB LE CG LE CD1 LE CD2 LE C LE O LE N SE CA SE CB SE	U D U D U D U D U D U D U D U D U D U D	18 18 18 18 18 18 18 18 19 19	58.624 57.978 56.567 55.563 56.090 54.332 57.806 57.148 58.323 58.085 59.401	54.752 53.917 54.511 53.620 53.066 54.437 52.599 52.565 51.506 50.145 49.524	75.101 76.046 76.298 76.986 78.283 77.255 75.327 74.292 75.879 75.341 74.816	1.00 46.73 1.00 44.77 1.00 42.30 1.00 40.07 1.00 41.41 1.00 41.25 1.00 43.93 1.00 42.76 1.00 44.90 1.00 43.56 1.00 46.48		
ATOM 12460 ATOM 12462 ATOM 12465 ATOM 12467 ATOM 12471 ATOM 12475 ATOM 12476 ATOM 12477 ATOM 12479 ATOM 12481 ATOM 12484	CA LE CB LE CG LE CD1 LE CD2 LE C LE O LE N SE CA SE CB SE OG SE	U D U D U D U D U D U D U D U D U D E E E E E E E E E E E E E E E E E E E	18 18 18 18 18 18 18 18 19 19	58.624 57.978 56.567 55.563 56.090 54.332 57.806 57.148 58.323 58.085 59.401 59.933	54.752 53.917 54.511 53.620 53.066 54.437 52.599 52.565 51.506 50.145 49.524 50.140	75.101 76.046 76.298 76.986 78.283 77.255 75.327 74.292 75.879 75.341 74.816 73.634	1.00 46.73 1.00 44.77 1.00 42.30 1.00 40.07 1.00 41.41 1.00 41.25 1.00 43.93 1.00 42.76 1.00 44.90 1.00 43.56 1.00 46.48 1.00 46.71		
ATOM 12460 ATOM 12462 ATOM 12465 ATOM 12471 ATOM 12475 ATOM 12476 ATOM 12477 ATOM 12479 ATOM 12481 ATOM 12484 ATOM 12486	CA LE CB LE CG LE CD1 LE CD2 LE C LE O LE N SE CA SE CB SE OG SE C SE	U D U D U D U D U D U D D U D D C C C C C C C C C C C C C C C C C C	18 18 18 18 18 18 18 19 19 19	58.624 57.978 56.567 55.563 56.090 54.332 57.806 57.148 58.323 58.085 59.401 59.933 57.448	54.752 53.917 54.511 53.620 53.066 54.437 52.599 52.565 51.506 50.145 49.524 50.140 49.240	75.101 76.046 76.298 76.986 78.283 77.255 75.327 74.292 75.879 75.341 74.816 73.634 76.426	1.00 46.73 1.00 44.77 1.00 42.30 1.00 40.07 1.00 41.41 1.00 41.25 1.00 43.93 1.00 42.76 1.00 44.90 1.00 43.56 1.00 46.48 1.00 46.71 1.00 42.19		
ATOM 12460 ATOM 12462 ATOM 12465 ATOM 12471 ATOM 12475 ATOM 12476 ATOM 12477 ATOM 12479 ATOM 12481 ATOM 12484 ATOM 12486 ATOM 12486	CA LE CB LE CG LE CD1 LE CD2 LE C LE O LE CA SE CA SE CB SE C SE C SE	U D U D U D U D U D D U D D U D D C C C C C C C C C C C C C C C C C C	18 18 18 18 18 18 18 19 19 19	58.624 57.978 56.567 55.563 56.090 54.332 57.806 57.148 58.085 59.401 59.933 57.448 57.952	54.752 53.917 54.511 53.620 53.066 54.437 52.599 52.565 51.506 50.145 49.524 50.140 49.240 49.152	75.101 76.046 76.298 76.986 78.283 77.255 75.327 74.292 75.341 74.816 73.634 76.426 77.562	1.00 46.73 1.00 44.77 1.00 42.30 1.00 40.07 1.00 41.41 1.00 43.93 1.00 42.76 1.00 44.90 1.00 43.56 1.00 46.48 1.00 46.71 1.00 42.19 1.00 44.56		0 N C C C C C C C C C C C C C C C C C C
ATOM 12460 ATOM 12462 ATOM 12467 ATOM 12471 ATOM 12475 ATOM 12476 ATOM 12477 ATOM 12477 ATOM 12481 ATOM 12484 ATOM 12484 ATOM 12486 ATOM 12487 ATOM 12487 ATOM 12488	CA LE CB LE CG LE CD1 LE C LE O LE N SE CA SE CB SE OG SE C SE N II	U D D D D D D D D D D D D D D D D D D D	18 18 18 18 18 18 18 19 19 19 19 19 19	58.624 57.978 56.567 55.563 56.090 54.332 57.806 57.148 58.085 59.401 59.933 57.448 57.952 56.343	54.752 53.917 54.511 53.620 53.066 54.437 52.599 52.565 51.506 50.145 49.524 50.140 49.240 49.152 48.596	75.101 76.046 76.298 76.986 78.283 77.255 75.327 74.292 75.341 74.816 73.634 76.426 77.562 76.071	1.00 46.73 1.00 44.77 1.00 42.30 1.00 40.07 1.00 41.41 1.00 43.93 1.00 42.76 1.00 44.90 1.00 46.48 1.00 46.48 1.00 46.71 1.00 42.19 1.00 43.56 1.00 39.20		
ATOM 12460 ATOM 12462 ATOM 12465 ATOM 12471 ATOM 12475 ATOM 12476 ATOM 12477 ATOM 12479 ATOM 12481 ATOM 12484 ATOM 12486 ATOM 12486	CA LE CB LE CG LE CD1 LE C LE O LE N SE CA SE CB SE OG SE C SE N II	U D D D D D D D D D D D D D D D D D D D	18 18 18 18 18 18 18 19 19 19	58.624 57.978 56.567 55.563 56.090 54.332 57.806 57.148 58.085 59.401 59.933 57.448 57.952	54.752 53.917 54.511 53.620 53.066 54.437 52.599 52.565 51.506 50.145 49.524 50.140 49.240 49.152	75.101 76.046 76.298 76.986 78.283 77.255 75.327 74.292 75.879 75.341 74.816 73.634 76.426 77.562 76.071 76.923	1.00 46.73 1.00 44.77 1.00 42.30 1.00 40.07 1.00 41.41 1.00 43.93 1.00 42.76 1.00 44.56 1.00 46.48 1.00 46.48 1.00 46.71 1.00 42.19 1.00 42.56 1.00 39.20 1.00 38.53		0 N C C C C C C C C C C C C C C C C C C
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ATOM 12460 ATOM 12462 ATOM 12465 ATOM 12467 ATOM 12471 ATOM 12476 ATOM 12477 ATOM 12479 ATOM 12481 ATOM 12484 ATOM 12486 ATOM 12487 ATOM 12487 ATOM 12487 ATOM 12490 ATOM 12492 ATOM 12494 ATOM 12494 ATOM 12497 ATOM 12501 ATOM 12505 ATOM 12506	CA LE CB LE CG LE CD1 LE C LE C LE C LE C SE C S		18 18 18 18 18 18 18 19 19 19 19 19 20 20 20 20 20 20 20 20 20 20	58.624 57.978 56.567 55.563 56.090 54.332 57.806 57.148 58.323 59.401 59.933 57.448 57.952 56.343 55.610 54.240 54.377 53.211 53.280 55.324 54.932	54.752 53.917 54.511 53.620 53.066 54.437 52.599 52.565 50.145 49.240 49.240 49.240 49.240 49.252 48.596 47.698 48.329 49.567 50.449 47.309 46.437 46.471	75.101 76.046 76.298 76.986 78.283 77.255 75.327 74.292 75.879 75.341 74.816 73.634 76.426 77.562 76.071 76.923 77.293 78.173 78.017 78.017 76.164 75.000	1.00 46.73 1.00 44.77 1.00 42.30 1.00 40.07 1.00 41.41 1.00 43.93 1.00 42.76 1.00 44.90 1.00 43.56 1.00 46.48 1.00 46.71 1.00 42.19 1.00 42.19 1.00 39.20 1.00 39.20 1.00 37.18 1.00 37.34 1.00 37.55 1.00 38.06 1.00 36.64		0 N C C C C C C N C C C O C O N C C C C C
ATOM 12460 ATOM 12462 ATOM 12465 ATOM 12467 ATOM 12471 ATOM 12475 ATOM 12477 ATOM 12479 ATOM 12481 ATOM 12484 ATOM 12486 ATOM 12487 ATOM 12487 ATOM 12494 ATOM 12492 ATOM 12494 ATOM 12497 ATOM 12497 ATOM 12501 ATOM 12505 ATOM 12506 ATOM 12507	CA LE CB LE CG LE CD1 LE CD2 LE C LE O LE O SE CA SE CG SE O SE O SE O SE C SE IL CCA		18 18 18 18 18 18 18 18 19 19 19 19 19 20 20 20 20 20 20 20 20 21	58.624 57.978 56.567 55.563 56.090 54.332 57.806 57.148 58.323 59.401 59.933 57.448 57.952 56.343 55.610 54.240 54.377 53.211 53.280 55.324 54.932 55.441	54.752 53.917 54.511 53.620 53.066 54.437 52.599 52.565 50.145 49.524 50.140 49.240 49.240 49.152 48.596 47.698 48.329 49.567 50.449 47.309 46.437 46.471 45.303	75.101 76.046 76.298 76.986 78.283 77.255 75.327 74.292 75.879 75.341 74.816 73.634 76.426 77.562 76.071 76.923 77.293 78.017 78.017 76.164 75.000 76.835	1.00 46.73 1.00 44.77 1.00 42.30 1.00 40.07 1.00 41.41 1.00 43.93 1.00 42.76 1.00 44.90 1.00 43.56 1.00 46.48 1.00 46.71 1.00 42.19 1.00 44.56 1.00 39.20 1.00 38.53 1.00 37.18 1.00 37.34 1.00 39.17 1.00 39.17 1.00 37.55 1.00 36.64 1.00 40.37		0 N C C C C C C O N C C C C O N C C C C C

ATOM 12513	OG1	THR	D	21	57.415	43.589	75.748	1.00 46.48		0
				21	55.958	41.774	75.812	1.00 45.01		C
ATOM 12515	¢G2	THR								C
ATOM 12519	C	THR		21	53.813	43.430	76.933	1.00 40.58		
ATOM 12520	0	THR		21	53.626	43.567	78.162	1.00 41.40		0
ATOM 12521	N	CYS	D	22	52.939	42.816	76.145	1.00 39.61		И
ATOM 12523	CA	CYS	D	22	51.711	42.179	76.631	1.00 39.65		С
ATOM 12525	CB	CYS	D	22	50.514	42.703	75.891	1.00 36.18		C
ATOM 12528	SG	CYS	D	22	48.888	42.439	76.557	1.00 40.37		S
ATOM 12529	C	CYS		22	51.943	40.719	76.274	1.00 41.94		С
ATOM 12530	0	CYS		22	51.961	40.359	75.089	1.00 42.48		0
					52.199	39.891	77.285	1.00 43.68		N
ATOM 12531	N	THR		23						
ATOM 12533	$^{\rm CA}$	THR		23	52.093	38.468	77.096	1.00 45.36		C
ATOM 12535	CB	THR	D	23	53.107	37.752	77.925	1.00 48.80		С
ATOM 12537	OG1	THR	D	23	54.348	38.483	77.823	1.00 53.25		0
ATOM 12539	CG2	THR	D	23	53.391	36.405	77.328	1.00 48.29	•	C
ATOM 12543	С	THR	D	23	50.749	37.970	77.417	1.00 44.01		C
ATOM 12544	0	THR		23	50.309	38.115	78.469	1.00 45.58		0
ATOM 12545	N	VAL		24	50.189	37.240	76.505	1.00 44.18		N
ATOM 12547	CA	VAL		24	48.801	36.874	76.441	1.00 43.47		С
					48.356	37.223	74.983	1.00 41.96		C
ATOM 12549	CB	VAL		24						
ATOM 12551		VAL		24	47.387	36.320	74.500	1.00 46.10		C
ATOM 12555	CG2	VAL	D	24	47.785	38.612	74.857	1.00 38.96		C
ATOM 12559	С	VAL	D	24	48.716	35.342	76.633	1.00 45.93		С
ATOM 12560	0	VAL	D	24	49.555	34.625	76.140	1.00 47.90)	0
ATOM 12561	N	SER	D	25	47.696	34.840	77.320	1.00 46.33	}	N
ATOM 12563	CA	SER	D	25	47.435	33.388	77.384	1.00 48.67		C
ATOM 12565	CB	SER		25	48.043	32.805	78.617	1.00 51.18	}	С
ATOM 12568	OG	SER		25	47.357	33.326	79.724	1.00 50.94		0
					45.932	33.060	77.394	1.00 47.97		C
ATOM 12570	C	SER		25						0
ATOM 12571	0	SER		25	45.123	33.821	77.850	1.00 46.72		
ATOM 12572	N	GLY		26	45.566	31.903	76.896	1.00 49.61		N
ATOM 12574	CA	GLY	D	26	44.195	31.497	76.922	1.00 49.63	3	С
ATOM 12577	С	GLY	D	26	43.485	31.917	75.682	1.00 47.39)	С
ATOM 12578	0	GLY	D	26	42.289	31.683	75.579	1.00 48.65	5	0
ATOM 12579	N	PHE	D	27	44.175	32.578	74.766	1.00 44.85	;	N
ATOM 12581	CA	PHE		27	43.678	32.695	73.407	1.00 42.48	}	С
ATOM 12583	CB	PHE		27	42.750	33.823	73.310	1.00 38.91		С
				27	43.398	35.137	73.470	1.00 37.97		C
ATOM 12586	CG	PHE								C
ATOM 12587		PHE		27	43.723	35.946	72.327	1.00 36.52		
ATOM 12589		PHE		27	44.286	37.244	72.465	1.00 32.40		C
ATOM 12591	CZ	PHE	D	27	44.529	37.730	73.713	1.00 33.39		С
ATOM 12593	CE2	PHE	D	27	44.200	36.928	74.876	1.00 36.37	1	С
ATOM 12595	CD2	PHE	D	27	43.631	35.636	74.733	1.00 37.60)	С
ATOM 12597	С	PHE	D	27	44.849	32.968	72.521	1.00 42.29)	C
ATOM 12598	0	PHE	D	27	45.885	33.253	73.043	1.00 43.18	}	0
ATOM 12599	N	SER		28	44.701	32.894	71.199	1.00 41.48		N
							70.284	1.00 41.0		C
ATOM 12601	CA	SER		28	45.787 46.052	33.229	69.303	1.00 43.62		C
ATOM 12603	CB	SER		28		32.076				
ATOM 12606	OG	SER		28	45.379	32.165	68.103	1.00 42.25		0
ATOM 12608	С	SER	D	28	45.579	34.557	69.592	1.00 38.22		C
ATOM 12609	0	SER	D	28	44.467	34.940	69.333	1.00 36.5		0
ATOM 12610	N	LEU	D	29	46.675	35.275	69.369	1.00 38.34	l	N
ATOM 12612	CA	LEU	D	29	46.673	36.543	68.643	1.00 36.43	3	C
ATOM 12614	CB	LEU		29	48.007	37.269	68.769	1.00 35.93	3	С
ATOM 12617	CG	LEU		29	48.340	37.596	70.229	1.00 37.3		С
		LEU				37.698	70.436	1.00 42.5		Ċ
ATOM 12619				29	49.853					С
ATOM 12623		LEU		29	47.767	38.823	70.769	1.00 35.50		
ATOM 12627	C	LEU		29	46.360	36.329	67.182	1.00 36.9		С
ATOM 12628	0	LEU		29	46.087	37.243	66.425	1.00 36.62		0
ATOM 12629	N	THR	D	30	46.351	35.089	66.796	1.00 39.5		N
ATOM 12631	CA	THR	D	30	45.918	34.679	65.473	1.00 39.9	7	С
ATOM 12633	CB	THR		30	46.294	33.210	65.329	1.00 43.13		С
ATOM 12635		THR		30	47.406	33.151	64.447	1.00 45.1		0
ATOM 12637		THR		30	45.192	32.267	64.762	1.00 43.7		Ċ
							65.221			C
ATOM 12641	C	THR		30	44.454	34.936		1.00 38.7		
ATOM 12642	0	THR		30	44.112	35.136	64.063	1.00 39.63		0
ATOM 12643	N	ASN		31	43.611	34.983	66.267	1.00 37.4		N
ATOM 12645	CA	ASN	D	31	42.163	35.188	66.094	1.00 36.6	7	С

ATOM 12647	CB ASN D	31	41.384	34.034	66.706	1.00 38.21	С
							č
ATOM 12650	CG ASN D	31	41.839	32.691	66.202	1.00 40.54	
ATOM 12651	OD1 ASN D	31	42.034	32.490	64.993	1.00 41.36	0
ATOM 12652	ND2 ASN D	31	42.022	31.763	67.125	1.00 40.98	N
ATOM 12655	C ASN D	31	41.563	36.434	66.711	1.00 34.82	C
				36.809	66.403	1.00 34.97	Ō
ATOM 12656	O ASN D	31	40.386				
ATOM 12657	N TYR D	32	42.328	37.047	67.606	1.00 33.79	N
ATOM 12659	CA TYR D	32	41.897	38.238	68.386	1.00 31.32	C
ATOM 12661	CB TYR D	32	41.680	37.931	69.881	1.00 30.94	C
ATOM 12664	CG TYR D	32	40.436	37.197	70.158	1.00 31.75	C
							Ċ
ATOM 12665	CD1 TYR D	32	40.437	35.834	70.261	1.00 35.96	
ATOM 12667	CE1 TYR D	32	39.263	35.109	70.544	1.00 37.48	C
ATOM 12669	CZ TYR D	32	38.076	35.762	70.634	1.00 38.25	С
ATOM 12670	OH TYR D	32	36.944	35.006	70.814	1.00 42.78	0
ATOM 12672	CE2 TYR D	32	38.032	37.152	70.457	1.00 36.56	C
ATOM 12674	CD2 TYR D	32	39.225	37.857	70.249	1.00 33.48	С
ATOM 12676	C TYR D	32	42.934	39.293	68.222	1.00 29.57	C
ATOM 12677	O TYR D	32	44.098	38.983	68.095	1.00 32.81	0
ATOM 12678	N GLY D	33	42.505	40.521	68.175	1.00 27.55	N
						1.00 27.54	C
ATOM 12680	CA GLY D	33	43.339	41.698	68.179		
ATOM 12683	C GLY D	33	43.622	42.083	69.643	1.00 28.10	C
ATOM 12684	O GLY D	33	42.841	41.699	70.478	1.00 28.48	0
ATOM 12685	N VAL D	34	44.747	42.753	69.946	1.00 28.42	N
ATOM 12687	CA VAL D	34	44.978	43.335	71.246	1.00 28.37	C
ATOM 12689	CB VAL D	34	46.329	42.870	71.774	1.00 29.29	С
ATOM 12691	CG1 VAL D	34	46.618	43.435	73.133	1.00 29.09	C
ATOM 12695	CG2 VAL D	34	46.332	41.434	71.903	1.00 31.00	C
ATOM 12699	C VAL D	34	44.958	44.866	71.101	1.00 28.37	С
ATOM 12700	O VAL D	34	45.624	45.432	70.231	1.00 28.84	Ō
ATOM 12701	N HIS D	35	44.195	45.528	71.940	1.00 28.35	N
ATOM 12703	CA HIS D	35	44.057	46.977	71.908	1.00 29.07	С
ATOM 12705	CB HIS D	35	42.582	47.405	72.135	1.00 28.80	C
ATOM 12708	CG HIS D	35	41.629	46.857	71.124	1.00 28.13	С
						1.00 28.65	И
ATOM 12709	ND1 HIS D	35	41.245	47.557	70.018		
ATOM 12711	CE1 HIS D	35	40.387	46.852	69.309	1.00 28.35	C
ATOM 12713	NE2 HIS D	35	40.220	45.689	69.902	1.00 29.20	И
ATOM 12715	CD2 HIS D	35	40.962	45.687	71.062	1.00 30.52	C
ATOM 12717	C HIS D	35	44.914	47.588	72.996	1.00 30.05	C
ATOM 12718	O HIS D	35	45.252	46.902	73.960	1.00 31.00	0
ATOM 12719	N TRP D	36	45.191	48.891	72.888	1.00 30.37	N
ATOM 12721	CA TRP D	36	45.968	49.637	73.896	1.00 30.27	C
ATOM 12723	CB TRP D	36	47.309	50.002	73.310	1.00 30.97	С
ATOM 12726	CG TRP D	36	48.150	48.741	73.152	1.00 33.79	C
ATOM 12727	CD1 TRP D	36	48.170	47.889	72.086	1.00 35.19	С
ATOM 12729	NE1 TRP D	36	49.026	46.835	72.340	1.00 35.82	N
ATOM 12731	CE2 TRP D	36	49.551	46.981	73.589	1.00 34.05	С
ATOM 12732	CD2 TRP D	36	49.040	48.169	74.124	1.00 33.66	C
ATOM 12733	CE3 TRP D	36	49.467	48.562	75.374	1.00 33.15	C
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ATOM 12735	CZ3 TRP D	36	50.354	47.796	76.024	1.00 37.51	
ATOM 12737	CH2 TRP D	36	50.881	46.636	75.451	1.00 38.07	С
ATOM 12739	CZ2 TRP D	36	50.470	46.216	74.235	1.00 37.73	С
ATOM 12741	C TRP D	36	45.246	50.892	74.309	1.00 30.62	С
ATOM 12742	O TRP D	36	44.780	51.687	73.485	1.00 31.69	0
ATOM 12743	N VAL D	37	45.089	51.077	75.591	1.00 30.38	N
ATOM 12745	CA VAL D	37	44.250	52.184	76.057	1.00 30.87	С
ATOM 12747	CB VAL D	37	42.965	51.664	76.601	1.00 30.04	C
ATOM 12749	CG1 VAL D	37	42.249	52.681	77.266	1.00 29.29	C
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ATOM 12753	CG2 VAL D	37	42.196	51.029	75.509	1.00 29.91	
ATOM 12757	C VAL D	37	45.001	52.685	77.207	1.00 32.03	С
ATOM 12758	O VAL D	37	45.581	51.865	77.898	1.00 33.02	0
ATOM 12759	N ARG D	38	44.997	53.987	77.438	1.00 32.94	N
ATOM 12761	CA ARG D	38	45.661	54.526	78.606	1.00 34.28	C
ATOM 12763	CB ARG D	38	46.875	55.319	78.163	1.00 35.74	C
ATOM 12766	CG ARG D	38	46.557	56.678	77.574	1.00 36.42	С
ATOM 12769	CD ARG D	38	47.776	57.442	77.251	1.00 36.01	С
ATOM 12772	NE ARG D	38	47.459	58.672	76.558	1.00 38.09	N
					76.121		Ĉ
ATOM 12774	CZ ARG D	38	48.345	59.511		1.00 36.79	
ATOM 12775	NH1 ARG D	38	49.623	59.276	76.303	1.00 39.89	И

ATOM 12778	NH2	ARG	D 3	8	47.960	60.562	75.501	1.00	38.50	N
ATOM 12781	С	ARG	D 3	3	44.763	55.369	79.527	1.00	34.80	C
ATOM 12782	0	ARG	D 3	3	43.781	55.900	79.125	1.00	33.76	0
ATOM 12783	N	GLN	D 3	9	45.159	55.528	80.755	1.00	35.60	N
ATOM 12785	CA	GLN	D 3	9	44.335	56.277	81.633	1.00	38.73	C
ATOM 12787	CB	GLN	D 3	9	43.724	55.284	82.598		39.56	С
ATOM 12790	CG	GLN	D 3	9	42.743	55.887	83.573		41.47	C
ATOM 12793	CD	GLN		9	42.015	54.861	84.346		40.76	C
ATOM 12794		GLN			42.588	53.843	84.731		40.61	0
ATOM 12795		GLN			40.736	55.120	84.599		45.06	N
ATOM 12798	C	GLN			45.148	57.376	82.371		41.44	C
ATOM 12799	0	GLN			46.199	57.117	82.951		41.23	0
ATOM 12800	N	SER			44.701	58.612	82.294		43.95	N
ATOM 12802	CA	SER			45.297	59.665	83.117		48.33	C C
ATOM 12804	CB	SER			45.996	60.801	82.338		49.57 48.49	0
ATOM 12807	OG	SER			45.266	61.127 60.222	81.159 83.917		51.39	C
ATOM 12809	C	SER			44.162	60.374	83.420		53.29	0
ATOM 12810	O N	SER PRO			43.005 44.470	60.547	85.153		53.68	N
ATOM 12811 ATOM 12812	N CA	PRO			43.423	60.996	86.069		57.08	C
ATOM 12814	CB	PRO			44.192	61.252	87.364		58.57	c
ATOM 12817	CG	PRO			45.528	61.522	86.889		57.21	C
ATOM 12820	CD	PRO			45.811	60.620	85.736		53.85	C
ATOM 12823	C	PRO			42.753	62.260	85.443		59.94	C
ATOM 12824	Ö	PRO			41.491	62.335	85.416		60.69	0
ATOM 12825	N	GLY			43.616	63.113	84.835	1.00	61.45	И
ATOM 12827	CA	GLY			43.269	64.364	84.131	1.00	64.05	С
ATOM 12830	С	GLY	D 4	2	42.483	64.364	82.805	1.00	63.41	С
ATOM 12831	0	GLY	D 4	2	41.364	64.858	82.825	1.00	65.45	0
ATOM 12832	N	LYS	D 4	3	43.023	63.893	81.661	1.00	60.97	N
ATOM 12834	CA	LYS	D 4	3	42.118	63.505	80.546		59.80	С
ATOM 12836	CB	LYS	D 4	3	42.851	63.131	79.232		57.52	С
ATOM 12843	C	LYS	D 4	3	41.186	62.352	81.078		58.39	C
ATOM 12844	0	LYS			40.305	62.593	82.000		63.11	0
ATOM 12845	N	GLY			41.315	61.144	80.548		53.00	N
ATOM 12847	CA	GLY			40.557	60.047	81.120		51.14	C
ATOM 12850	С	GLY			41.027	58.728	80.530		47.33	C
ATOM 12851	0	GLY			42.277	58.557	80.366		46.03	0
ATOM 12852	N	LEU			40.088	57.808	80.217		44.05	N C
ATOM 12854	CA	LEU			40.455	56.553 55.575	79.559 79.824		40.18	C
ATOM 12856	CB	LEU			39.386 39.601	54.171	80.329		38.63	C
ATOM 12859 ATOM 12861	CG CD1	LEU LEU			40.898	53.853	80.863		37.61	C
ATOM 12865		LEU			38.510	54.020	81.401		42.06	C
ATOM 12869	C	LEU			40.553	56.808	78.075		38.78	Ċ
ATOM 12870	0	LEU			39.585	57.217	77.474		42.37	Ö
ATOM 12871	N	GLU		_	41.683	56.616	77.442		36.39	N
ATOM 12873	CA	GLU			41.756	56.917	76.023		36.08	С
ATOM 12875	CB	GLU		6	42.482	58.195	75.876		38.06	С
ATOM 12878	CG	GLU		6	42.640	58.660	74.466	1.00	43.17	C
ATOM 12881	CD	GLU		6	43.757	59.721	74.236	1.00	49.47	С
ATOM 12882	OE1	GLU	D 4	6	44.654	59.993	75.192	1.00	44.91	0
ATOM 12883	OE2	GLU	D 4	6	43.686	60.248	73.037		46.97	0
ATOM 12884	С	GLU	D 4	6	42.359	55.793	75.169		32.98	С
ATOM 12885	0	GLU	D 4	6	43.347	55.226	75.508		31.48	0
ATOM 12886	N	TRP	D 4	7	41.679	55.438	74.096		32.53	N
ATOM 12888	CA	TRP		7	42.154	54.391	73.191		32.16	C
ATOM 12890	CB	TRP		7	41.001	53.746	72.467		31.08	C
ATOM 12893	CG	TRP		7	41.254	52.697	71.439		30.69	C
ATOM 12894		TRP		7	41.205	51.356	71.611		30.28	C
ATOM 12896		TRP		7	41.413	50.701	70.416		29.31	N
ATOM 12898		TRP		7	41.587	51.627	69.432		29.06	C
ATOM 12899		TRP		7	41.481	52.897	70.034		33.41	C
ATOM 12900		TRP		7	41.626	54.035	69.212		36.15	C
ATOM 12902		TRP		7	41.836	53.864	67.825		32.52	C
ATOM 12904		TRP		7 7	41.916	52.607 51.466	67.285 68.079		30.16 29.39	C
ATOM 12906		TRP		7 7	41.785 43.269	51.466 54.825	72.197		32.70	C
ATOM 12908	С	TRP	D 4	7	40.203	J4.02J	12.131	±.00	52.10	0

ATOM 12909	O TRP D	47	43.190	55.885	71.523	1.00 32.87	0
ATOM 12910	N LEU D		44.322	53.995	72.178	1.00 31.73	N
ATOM 12912	CA LEU D	48	45.556	54.317	71.463	1.00 32.99	С
ATOM 12914	CB LEU D	48	46.776	53.933	72.280	1.00 32.64	Č
				54.648	73.611	1.00 32.04	C
ATOM 12917		48	46.758				
ATOM 12919	CD1 LEU D	48	47.957	54.186	74.392	1.00 32.17	C
ATOM 12923	CD2 LEU D	48	46.771	56.119	73.414	1.00 32.53	С
ATOM 12927	C LEU D	48	45.631	53.665	70.121	1.00 32.70	C
ATOM 12928	O LEU D	48	45.921	54.298	69.140	1.00 32.71	0
ATOM 12929	N GLY D	49	45.363	52.376	70.092	1.00 32.34	И
ATOM 12931	CA GLY D	49	45.225	51.704	68.809	1.00 32.63	C
ATOM 12934	C GLY D	49	45.081	50.210	68.962	1.00 31.13	С
ATOM 12935	O GLY D	49	44.752	49.728	70.032	1.00 30.55	0
ATOM 12936	N VAL D	50	45.357	49.499	67.880	1.00 30.69	И
					67.858	1.00 29.69	C
ATOM 12938	CA VAL D	50	45.234	48.071			
ATOM 12940	CB VAL D	50	43.921	47.569	67.214	1.00 30.33	C
ATOM 12942	CG1 VAL D		43.191	46.659	68.168	1.00 29.69	С
ATOM 12946	CG2 VAL D	50	43.087	48.640	66.687	1.00 30.44	С
ATOM 12950	C VAL D	50	46.227	47.452	66.954	1.00 29.44	С
ATOM 12951	O VAL D	50	46.492	47.957	65.895	1.00 28.43	0
ATOM 12952	N ILE D	51	46.704	46.296	67.352	1.00 29.83	N
ATOM 12954	CA ILE D	51	47.217	45.344	66.382	1.00 31.60	C
ATOM 12956	CB ILE D		48.621	44.854	66.705	1.00 32.32	С
ATOM 12958	CG1 ILE D		49.185	44.059	65.511	1.00 36.70	Ċ
ATOM 12961	CD1 ILE D		50.707	43.620	65.590	1.00 32.82	Č
	CG2 ILE D					1.00 32.32	C
ATOM 12965			48.644	43.931	67.879		
ATOM 12969	C ILE D		46.179	44.218	66.317	1.00 31.06	C
ATOM 12970	O ILE D		46.002	43.445	67.231	1.00 30.75	0
ATOM 12971	N TRP D		45.429	44.247	65.242	1.00 31.60	N
ATOM 12973	CA TRP D	52	44.467	43.230	64.869	1.00 31.36	С
ATOM 12975	CB TRP D	52	43.712	43.639	63.636	1.00 30.90	С
ATOM 12978	CG TRP D	52	42.953	44.914	63.709	1.00 29.08	C
ATOM 12979	CD1 TRP D	52	43.219	46.097	63.033	1.00 28.04	С
ATOM 12981	NE1 TRP D	52	42.243	47.006	63.289	1.00 26.54	N
ATOM 12983	CE2 TRP D		41.321	46.397	64.086	1.00 25.66	С
ATOM 12984	CD2 TRP D		41.738	45.097	64.333	1.00 26.15	C
ATOM 12985	CE3 TRP D		40.927	44.278	65.103	1.00 29.06	č
						1.00 26.64	Ċ
ATOM 12987	CZ3 TRP D		39.779	44.803	65.625		
ATOM 12989	CH2 TRP D		39.410	46.068	65.353	1.00 27.20	C
ATOM 12991	CZ2 TRP D		40.166	46.880	64.583	1.00 28.98	C
ATOM 12993	C TRP D		45.108	41.895	64.531	1.00 32.27	C
ATOM 12994	O TRP D	52	46.307	41.779	64.320	1.00 32.72	0
ATOM 12995	N SER D	53	44.227	40.915	64.488	1.00 32.74	N
ATOM 12997	CA SER D	53	44.580	39.525	64.425	1.00 34.75	C
ATOM 12999	CB SER D	53	43.298	38.681	64.426	1.00 35.90	C
ATOM 13002	OG SER D		42.764	38.516	63.151	1.00 37.74	0
ATOM 13004	C SER D		45.454	39.204	63.274	1.00 35.30	C
ATOM 13004 ATOM 13005	O SER D		46.503	38.646	63.451	1.00 37.19	Õ
			45.092	39.637	62.083	1.00 35.49	N
ATOM 13006	N GLY D			39.425		1.00 35.49	C
ATOM 13008	CA GLY D		45.992		60.943		
ATOM 13011	C GLY D		47.220	40.303	60.835	1.00 34.39	C
ATOM 13012	O GLY D		47.807	40.343	59.768	1.00 36.25	0
ATOM 13013	N GLY D		47.614	40.991	61.899	1.00 32.23	N
ATOM 13015	CA GLY D	55	48.901	41.684	61.913	1.00 33.48	C
ATOM 13018	C GLY D	55	48.859	43.138	61.531	1.00 33.28	C
ATOM 13019	O GLY D	55	49.752	43.862	61.701	1.00 33.23	0
ATOM 13020	N ASN D		47.752	43.574	61.012	1.00 33.55	N
ATOM 13022	CA ASN D		47.664	44.924	60.574	1.00 35.11	C
ATOM 13022	CB ASN D		46.626	45.025	59.499	1.00 34.70	Ċ
	CG ASN D		45.305	44.633	59.959	1.00 34.70	Ċ
ATOM 13027							
ATOM 13028	OD1 ASN D		44.385	45.451	59.883	1.00 40.28	0
ATOM 13029	ND2 ASN D		45.122	43.357	60.343	1.00 36.56	N
ATOM 13032	C ASN D		47.347	45.795	61.765	1.00 34.36	C
ATOM 13033	O ASN D		46.820	45.268	62.750	1.00 33.78	0
ATOM 13034	N THR D	57	47.669	47.100	61.710	1.00 34.41	N
ATOM 13036	CA THR D	57	47.319	47.969	62.842	1.00 32.78	C
ATOM 13038	CB THR D		48.563	48.487	63.562	1.00 32.50	C
ATOM 13040	OG1 THR D		49.303	49.334	62.711	1.00 34.26	0
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ATOM 13042	CG2	THR	D 5	7 4	9.505	47.392	63.858	1 00	33.15	С
	-	THR			6.377	49.127	62.532		32.96	C
ATOM 13046	С									
ATOM 13047	0	THR	D 5'	/ 4	6.016	49.401	61.417	1.00	34.56	0
ATOM 13048	N	ASP	D 58	3 4	5.957	49.794	63.572	1.00	32.56	N
ATOM 13050	CA	ASP	D 58	3 4	5.262	51.043	63.418	1.00	33.53	C
ATOM 13052	CB	ASP			3.805	50.801	63.352		32.81	C
									35.44	
ATOM 13055	CG	ASP			3.086	51.930	62.805			C
ATOM 13056	OD1	ASP	D 58	3 4	3.702	52.786	62.201	1.00	39.99	0
ATOM 13057	OD2	ASP	D 58	3 4	1.850	52.052	62.880	1.00	44.18	0
ATOM 13058	С	ASP	D 58	3 4	5.555	51.858	64.639	1.00	34.20	С
ATOM 13059	0	ASP			5.601	51.348	65.789		33.15	0
ATOM 13060	N	TYR			5.757	53.139	64.413		36.15	N
ATOM 13062	CA	TYR	D 5	9 4	6.178	54.024	65.491	1.00	35.91	С
ATOM 13064	CB	TYR	D 59	9 4	7.573	54.426	65.247	1.00	36.57	C
ATOM 13067	CG	TYR	D 59	9 4	8.572	53.328	65.088	1.00	37.04	С
ATOM 13068	CD1	TYR			9.590	53.425	64.103		40.41	С
	CE1								38.26	C
ATOM 13070					0.555	52.505	63.961			
ATOM 13072	$^{\rm CZ}$	TYR			0.592	51.439	64.807		36.55	С
ATOM 13073	OH	TYR	D 59	5	1.546	50.524	64.623	1.00	38.64	0
ATOM 13075	CE2	TYR	D 59	9 4	9.668	51.275	65.780	1.00	36.05	С
ATOM 13077	CD2	TYR	D 59	9 4	8.620	52.260	65.935	1.00	36.55	С
	C	TYR			5.335	55.284	65.529		36.81	C
ATOM 13079										
ATOM 13080	0	TYR			5.092	55.899	64.524		38.49	0
ATOM 13081	N	ASN	D 60) 4	4.888	55.660	66.710	1.00	36.57	N
ATOM 13083	CA	ASN	D 60) 4	4.107	56.894	66.906	1.00	38.17	C
ATOM 13085	CB	ASN	D 60) 4.	3.885	57.030	68.383	1.00	37.59	С
ATOM 13088	CG	ASN			2.742	57.873	68.742		39.27	Č
ATOM 13089		ASN			2.025	58.492	67.928		42.52	0
ATOM 13090	ND2	ASN	D 60) 4.	2.533	57.895	70.029	1.00	40.55	N
ATOM 13093	С	ASN	D 60) 4	4.905	58.075	66.418	1.00	39.85	C
ATOM 13094	0	ASN	D 60) 4	6.085	58.121	66.619	1.00	40.65	0
ATOM 13095	N	THR			4.255	59.004	65.783		41.38	N
ATOM 13097	CA	THR			4.885	60.081	65.089		45.06	C
ATOM 13099	CB	THR	D 63	4.	3.838	61.144	64.787	1.00	48.42	С
ATOM 13101	OG1	THR	D 63	4.	2.731	60.516	64.121	1.00	47.87	0
ATOM 13103	CG2	THR	D 63	. 4	4.366	62.233	63.789	1.00	52.40	C
ATOM 13107	C	THR			6.027	60.733	65.763		46.36	С
ATOM 13108	0	THR			7.011	60.937	65.152		48.83	0
ATOM 13109	N	PRO			5.936	61.148	66.995		47.67	N
ATOM 13110	CA	PRO	D 62	2 4'	7.106	61.814	67.621	1.00	49.35	С
ATOM 13112	CB	PRO	D 62	2 4	6.538	62.388	68.924	1.00	49.55	C
ATOM 13115	CG	PRO	D 62		5.387	61.448	69.263	1.00	47.57	С
ATOM 13118	CD	PRO			4.769	61.089	67.900		47.33	Ċ
ATOM 13121	С	PRO			8.301	60.936	67.935		47.56	С
ATOM 13122	0	PRO	D 62	2 4	9.297	61.412	68.435	1.00	49.85	0
ATOM 13123	N	PHE	D 63	3 4:	8.225	59.660	67.661	1.00	45.89	N
ATOM 13125	CA	PHE	D 63	3 4.	9.354	58.776	67.922	1.00	45.48	С
ATOM 13127	CB	PHE			8.991	57.694	69.022		42.86	Ċ
ATOM 13130	CG	PHE			8.348	58.264	70.261		41.77	C
ATOM 13131	CD1	PHE			6.985	58.211	70.441		37.08	С
ATOM 13133	CE1	PHE	D 63	3 4	6.398	58.790	71.575	1.00	38.67	C
ATOM 13135	CZ	PHE	D 63	3 4	7.145	59.418	72.527	1.00	37.15	С
ATOM 13137		PHE			8.487	59.515	72.346		41.21	C
ATOM 13139										
		PHE			9.109	58.935	71.211		41.81	C
ATOM 13141	С	$_{\mathrm{PHE}}$			9.802	58.127	66.601		46.08	C
ATOM 13142	0	PHE	D 63	3 5	0.622	57.230	66.587	1.00	46.42	0
ATOM 13143	N	THR	D 64	4	9.300	58.568	65.480	1.00	47.62	N
ATOM 13145	CA	THR			9.712	57.961	64.240		49.13	C
ATOM 13147						58.633	63.160		51.36	C
	CB	THR			8.972					
ATOM 13149		THR			7.638	58.085	63.156		50.94	0
ATOM 13151	CG2	THR	D 64	Į 4	9.591	58.313	61.782	1.00	54.91	C
ATOM 13155	C	THR	D 64	Į 5:	1.210	58.114	63.990	1.00	52.42	C
ATOM 13156	Ō	THR			1.907	57.193	63.532		53.42	Ō
ATOM 13157	N	SER			1.737	59.289	64.303		54.78	N
ATOM 13159	CA	SER			3.053	59.604	63.833		56.59	C
ATOM 13161	CB	SER	D 65		3.251	61.158	63.765	1.00	60.91	C
ATOM 13164	OG	SER	D 65	5 5	3.283	61.827	65.066	1.00	60.68	0
ATOM 13166	C	SER			4.083	58.943	64.716		54.95	C
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ATOM 13167	O SER D	65	55.308	59.151	64.511	1.00 58.96	0
ATOM 13168	N ARG D	66	53.650	58.240	65.753	1.00 50.49	N
		66	54.617	57.976	66.852	1.00 50.01	C
ATOM 13170	CA ARG D						C
ATOM 13172	CB ARG D	66	54.716	59.163	67.832	1.00 50.28	
ATOM 13175	CG ARG D	66	53.473	59.338	68.681	1.00 49.71	C
ATOM 13178	CD ARG D	66	53.310	60.748	69.279	1.00 52.47	C
ATOM 13181	NE ARG D	66	53.856	60.823	70.640	1.00 51.78	N
ATOM 13183	CZ ARG D	66	53.150	60.998	71.750	1.00 50.52	C
ATOM 13184	NH1 ARG D	66	51.848	61.166	71.744	1.00 52.35	N
ATOM 13187	NH2 ARG D	66	53.760	61.064	72.902	1.00 52.82	N
			54.356	56.697	67.597	1.00 46.69	C
ATOM 13190		66					Ö
ATOM 13191	O ARG D	66	55.145	56.247	68.434	1.00 46.16	
ATOM 13192	N LEU D	67	53.265	56.067	67.250	1.00 44.55	N
ATOM 13194	CA LEU D	67	52.930	54.840	67.913	1.00 42.69	C
ATOM 13196	CB LEU D	67	51.444	54.918	68.365	1.00 40.49	C
ATOM 13199	CG LEU D	67	50.806	53.736	69.049	1.00 39.68	C
ATOM 13201	CD1 LEU D	67	51.766	53.114	70.010	1.00 41.91	C
ATOM 13205	CD2 LEU D	67	49.535	54.112	69.731	1.00 39.30	С
ATOM 13209	C LEU D	67	53.301	53.694	66.939	1.00 42.23	Ċ
					65.722	1.00 41.99	Ö
ATOM 13210	O LEU D	67	53.187	53.803			
ATOM 13211	N SER D	68	53.814	52.615	67.484	1.00 41.73	N
ATOM 13213	CA SER D	68	53.956	51.426	66.679	1.00 42.24	С
ATOM 13215	CB SER D	68	55.369	51.322	66.097	1.00 44.65	С
ATOM 13218	OG SER D	68	56.007	50.216	66.719	1.00 44.64	0
ATOM 13220	C SER D	68	53.670	50.202	67.537	1.00 40.14	C
ATOM 13221	O SER D	68	54.406	49.959	68.458	1.00 41.75	0
ATOM 13222	N ILE D	69	52.646	49.430	67.192	1.00 38.16	И
		69	52.444	48.115	67.777	1.00 37.76	C
ATOM 13224						1.00 37.70	č
ATOM 13226	CB ILE D		51.042	47.962	68.094		
ATOM 13228	CG1 ILE D		50.542	49.253	68.763	1.00 35.84	C
ATOM 13231	CD1 ILE D		49.059	49.374	69.024	1.00 34.14	C
ATOM 13235	CG2 ILE D	69	50.941	46.834	69.044	1.00 36.27	C
ATOM 13239	C ILE D	69	52.930	46.915	66.909	1.00 39.46	C
ATOM 13240	O ILE D	69	52.799	46.952	65.673	1.00 41.51	0
ATOM 13241	N ASN D	70	53.501	45.877	67.523	1.00 39.23	N
ATOM 13243	CA ASN D		53.977	44.715	66.762	1.00 41.63	C
ATOM 13245	CB ASN D		55.460	44.779	66.533	1.00 44.84	Ċ
			55.800	45.718	65.434	1.00 49.17	Č
ATOM 13248	CG ASN D						0
ATOM 13249	OD1 ASN D		55.575	45.399	64.289	1.00 55.81	
ATOM 13250	ND2 ASN D		56.256	46.927	65.763	1.00 52.56	N
ATOM 13253	C ASN D	70	53.631	43.453	67.469	1.00 40.86	С
ATOM 13254	O ASN D	70	53.133	43.517	68.548	1.00 40.73	0
ATOM 13255	N LYS D	71	53.824	42.299	66.872	1.00 41.57	N
ATOM 13257	CA LYS D	71	53.571	41.114	67.652	1.00 41.77	C
ATOM 13259	CB LYS D	71	52.089	40.784	67.647	1.00 39.31	C
ATOM 13262	CG LYS D		51.532	40.227	66.385	1.00 38.04	С
			49.962	40.233	66.402	1.00 37.00	Č
ATOM 13265	CD LYS D		49.309	39.359	65.314	1.00 34.15	Č
ATOM 13268	CE LYS D					1.00 34.13	И
ATOM 13271	NZ LYS D		47.935	39.378	65.457		
ATOM 13275	C LYS D		54.304	39.898	67.162	1.00 45.31	C
ATOM 13276	O LYS D	71	54.644	39.819	66.008	1.00 47.02	0
ATOM 13277	N ASP D	72	54.499	38.940	68.061	1.00 46.92	N
ATOM 13279	CA ASP D	72	54.911	37.579	67.731	1.00 49.86	C
ATOM 13281	CB ASP D	72	56.252	37.312	68.418	1.00 52.20	C
ATOM 13284	CG ASP D		56.857	36.047	67.966	1.00 58.26	C
ATOM 13285	OD1 ASP D		56.033	35.215	67.531	1.00 59.63	Ō
				35.774	67.965	1.00 67.49	Ö
ATOM 13286	OD2 ASP D		58.108			1.00 48.55	C
ATOM 13287	C ASP D		53.816	36.496	68.102		
ATOM 13288	O ASP D		53.706	36.125	69.270	1.00 48.20	0
ATOM 13289	n Asn D	73	53.015	36.002	67.142	1.00 47.65	N
ATOM 13291	CA ASN D	73	51.975	35.023	67.542	1.00 47.21	C
ATOM 13293	CB ASN D	73	50.978	34.570	66.476	1.00 45.48	C
ATOM 13296	CG ASN D		50.327	35.684	65.713	1.00 43.16	C
ATOM 13297	OD1 ASN D		49.630	36.539	66.293	1.00 47.44	Ō
ATOM 13298	ND2 ASN D		50.408	35.612	64.406	1.00 39.25	N
						1.00 59.25	C
ATOM 13301	C ASN D		52.598	33.748	68.083		
ATOM 13302	O ASN D		51.987	33.107	68.883	1.00 52.43	0
ATOM 13303	N SER D	74	53.773	33.318	67.643	1.00 54.87	N

7\m⊃M	13305	C7	SER	D	74	54.397	32.122	68.317	1 00	58.74	С
		CA									Č
	13307	CB	SER		74	55.773	31.817	67.787		62.13	
	13310	OG	SER		74	55.629	31.667	66.404		65.94	0
MOTA	13312	С	SER	D	74	54.543	32.307	69.802	1.00	58.18	C
MOTA	13313	0	SER	D	74	54.129	31.462	70.531	1.00	60.18	0
MOTA	13314	N	LYS	D	75	55.131	33.421	70.238	1.00	56.43	N
	13316	CA	LYS	D	75	55.368	33.665	71.639	1.00	56.60	C
	13318	CB	LYS		75	56.566	34.600	71.806		57.02	C
	13321	CG	LYS		75	57.816	33.999	71.324		62.21	Č
	13324	CD	LYS		75	58.969	34.990	71.079		65.08	С
	13327	CE	LYS		75	60.071	34.308	70.161		69.37	C
MOTA	13330	NZ	LYS	D	75	61.327	33.664	70.861		75.58	N
MOTA	13334	C	${ t LYS}$	D	75	54.153	34.295	72.277	1.00	53.67	C
MOTA	13335	0	LYS	D	75	54.254	34.800	73.361	1.00	53.73	0
ATOM	13336	N	SER	D	76	52.997	34.249	71.621	1.00	52.05	N
ATOM	13338	CA	SER	D	76	51.836	35.122	71.941	1.00	48.62	C
	13340	СВ	SER		76	50.739	34.328	72.636		48.74	С
	13343	OG	SER		76	51.376	33.677	73.649		52.34	Ō
		C	SER		76	52.224	36.397	72.744		46.65	C
	13345										
	13346	0	SER		76	51.862	36.571	73.915		45.12	0
	13347	N	GLN		77	52.938	37.285	72.056		45.21	N
MOTA	13349	CA	GLN		77	53.433	38.479	72.656		43.66	С
MOTA	13351	CB	GLN	D	77	54.970	38.339	72.814	1.00	46.88	C
MOTA	13354	CG	GLN	D	77	55.413	37.830	74.223	1.00	47.53	C
ATOM	13357	CD	GLN	D	77	56.927	37.700	74.397	1.00	49.35	C
	13358	OE1	GLN		77	57.662	37.900	73.452	1.00	49.14	0
	13359	NE2	GLN		77	57.377	37.335	75.607		49.80	N
	13362	C	GLN		77	53.046	39.686	71.801		40.90	C
								70.599			Ö
	13363	0	GLN		77	53.118	39.637			39.78	
	13364	N	VAL		78	52.621	40.767	72.441		39.44	N
	13366	CA	VAL		78	52.391	42.018	71.747		38.83	С
MOTA	13368	CB	VAL	D	78	51.002	42.480	71.899	1.00	36.73	С
MOTA	13370	CG1	VAL	D	78	50.881	43.889	71.317	1.00	36.47	С
MOTA	13374	CG2	VAL	D	78	50.060	41.533	71.152	1.00	36.98	С
ATOM	13378	С	VAL	D	78	53.269	43.132	72.259	1.00	39.68	С
	13379	Ō	VAL		78	53.417	43.313	73.430		41.11	0
	13380	N	PHE		79	53.852	43.887	71.350		41.21	N
		CA	PHE		79	54.922	44.885	71.657		42.91	C
	13382										c
	13384	CB	PHE		79	56.198	44.576	70.873		44.00	
	13387	CG	PHE		79	56.685	43.209	71.048		44.41	C
	13388		PHE		79	56.809	42.361	69.986		44.33	С
MOTA	13390	CE1	PHE	D	79	57.312	41.097	70.146	1.00	44.84	C
MOTA	13392	CZ	PHE	D	79	57.692	40.655	71.360	1.00	46.86	C
MOTA	13394	CE2	PHE	D	79	57.625	41.481	72.428	1.00	47.48	С
ATOM	13396	CD2	PHE	D	79	57.110	42.779	72.274	1.00	47.39	C
	13398	C	PHE		79	54.451	46.315	71.284		41.27	С
	13399	0	PHE		79	54.445	46.684	70.135		41.52	0
	13400		PHE		80	54.052	47.086	72.266		40.35	И
		N					48.422	72.230			C
	13402	CA	PHE		80	53.562				39.60	
	13404	СВ	PHE		80	52.521	48.721	73.090		38.21	C
	13407	CG	PHE		80	52.216	50.165	73.261		37.90	C
	13408	CD1	PHE	D	80	51.021	50.680	72.821		35.78	C
MOTA	13410	CE1	PHE	D	80	50.725	51.977	73.032	1.00	34.24	C
MOTA	13412	CZ	PHE	D	80	51.553	52.761	73.706	1.00	33.92	C
MOTA	13414	CE2	PHE	D	80	52.672	52.283	74.183	1.00	37.81	С
ATOM	13416	CD2	PHE	D	80	53.045	50.982	73.964	1.00	37.72	C
	13418	C	PHE		80	54.725	49.303	72.235		41.55	С
	13419	Ö	PHE		80	55.430	49.157	73.215		42.98	0
								71.309			
	13420	N	LYS		81	54.956	50.208			42.00	N
	13422	CA	LYS		81	56.094	51.126	71.444		43.52	C
	13424	CB	LYS		81	57.243	50.693	70.573		45.25	C
MOTA	13427	CG	LYS	D	81	58.519	51.595	70.732		48.35	С
ATOM	13430	CD	LYS	D	81	59.776	51.198	69.903	1.00	49.70	С
MOTA	13433	CE	LYS	D	81	60.773	52.392	69.816	1.00	53.14	С
	13436	NZ	LYS		81	62,159	52.008	69.543	1.00	55.94	N
	13440	C	LYS		81	55.604	52.514	71.033		43.91	C
	13441	Ö	LYS		81	54.940	52.640	69.988		44.59	Ō
	13442	И	MET		82	55.837	53.535	71.861		44.38	И
AT ON	10444	LY	THE R		U <u>L</u>	55.057	55.555	, 4.004	4.00	17.00	IN

ATOM 13444	CA	MET I	82	55.448	54.904	71.496	1.00 45.09	С
ATOM 13444 ATOM 13446	CB	MET I		54.343		72.393	1.00 44.28	Č
ATOM 13449	CG	MET I		54.024		72.173	1.00 45.85	C
ATOM 13452	SD	MET I		52.329		72.824	1.00 47.44	S
ATOM 13453	CE	MET [82	52.586	57.665	74.489	1.00 46.84	С
ATOM 13457	С	MET I	82	56.604	55.815	71.643	1.00 47.35	C
ATOM 13458	0	MET D	82	57.299	55.728	72.615	1.00 47.79	0
ATOM 13459	N	ASN D	83	56.792	56.728	70.704	1.00 49.56	N
ATOM 13461	CA	ASN D		58.009		70.660	1.00 52.90	Ċ
ATOM 13463	CB	ASN D		58.447		69.202	1.00 55.93	Č
				58.932			1.00 58.70	
ATOM 13466	CG	ASN I				68.511		C
ATOM 13467		ASN D		59.525		69.150	1.00 60.92	0
ATOM 13468	ND2	ASN I		58.724	56.428	67.175	1.00 62.10	N
ATOM 13471	С	ASN E	83	57.828	58.935	71.279	1.00 53.16	C
ATOM 13472	0	ASN D	83	56.723	59.418	71.428	1.00 50.57	0
ATOM 13473	N	SER E	84	58.938	59.578	71.592	1.00 56.13	N
ATOM 13475	CA	SER I	84	58.927	60.981	72.007	1.00 58.85	C
ATOM 13477	CB	SER I		58.743		70.818	1.00 60.49	C
ATOM 13480	OG	SER I		59.650		69.902	1.00 66.30	Ö
ATOM 13482	C	SER I		57.859		72.991	1.00 57.53	Ċ
ATOM 13483	0	SER I		56.903		72.657	1.00 57.77	0
ATOM 13484	N	LEU [58.044		74.219	1.00 56.64	N
ATOM 13486	CA	LEU I		57.070		75.227	1.00 55.13	С
ATOM 13488	CB	LEU E	85	57.161	60.009	76.274	1.00 53.82	C
ATOM 13491	CG	LEU D	85	56.234	58.846	75.910	1.00 50.98	C
ATOM 13493	CD1	LEU D	85	56.953	57.991	74.900	1.00 52.48	C
ATOM 13497	CD2	LEU D	85	55.847	58.046	77.151	1.00 49.77	C
ATOM 13501	С	LEU I		57.320		75.826	1.00 57.61	С
ATOM 13502	Ö	LEU I		58.423		75.802	1.00 60.21	Ō
ATOM 13502	N	GLN I		56.247		76.298	1.00 56.61	N
ATOM 13505	CA	GLN I		56.287		77.012	1.00 58.88	C
ATOM 13507	CB	GLN I		55.661		76.174	1.00 60.42	C
ATOM 13510	CG	GLN I	86	56.455	65.786	74.922	1.00 62.18	C
ATOM 13513	CD	GLN I	86	57.886	66.248	75.220	1.00 64.34	C
ATOM 13514	OE1	GLN I	86	58.158	66.968	76.214	1.00 62.43	O
ATOM 13515	NE2	GLN I) 86	58.800	65.806	74.377	1.00 62.47	N
ATOM 13518	С	GLN I	86	55.487	64.077	78.249	1.00 56.98	C
ATOM 13519	0	GLN I	86	55.039		78.450	1.00 53.19	0
ATOM 13520	N	SER I		55.323		79.089	1.00 59.59	N
ATOM 13522	CA	SER D		54.745		80.381	1.00 59.57	C
ATOM 13524	CB	SER I		55.036		81.289	1.00 63.01	Č
ATOM 13527	OG	SER I		54.389		80.689	1.00 67.52	0
ATOM 13529	С	SER I		53.258		80.272	1.00 57.33	C
ATOM 13530	0	SER E		52.767		81.021	1.00 55.78	0
ATOM 13531	N	ASN D		52.563		79.329	1.00 58.66	N
ATOM 13533	CA	ASN D	88 C	51.256	64.748	78.718	1.00 56.25	C
ATOM 13535	CB	ASN E	88	51.180	65.170	77.247	1.00 57.45	C
ATOM 13538	CG	ASN D	88 C	50.876	66.580	77.067	1.00 62.84	C
ATOM 13539	OD1	ASN I	88	50.883	67.306	78.041	1.00 74.09	0
ATOM 13540		ASN D		50.533		75.831	1.00 63.95	N
ATOM 13543	C	ASN D		51.038		78.581	1.00 52.90	C
		ASN I		49.916			1.00 52.43	Ö
ATOM 13544	0					78.417		
ATOM 13545	N	ASP I		52.092		78.501	1.00 51.41	N
ATOM 13547	CA	ASP I		51.949		78.388	1.00 49.06	С
ATOM 13549	CB	ASP D	89	52.926	60.536	77.355	1.00 49.14	С
ATOM 13552	CG	ASP D	89	52.744	61.234	76.046	1.00 51.56	C
ATOM 13553	OD1	ASP I	89	51.627	61.127	75.481	1.00 51.32	0
ATOM 13554		ASP I		53.661		75.486	1.00 54.26	0
ATOM 13555	C	ASP D		52.113		79.688	1.00 49.01	Ċ
ATOM 13556	Ö	ASP I		52.119		79.650	1.00 47.85	Ö
ATOM 13557		THR I		52.206		80.847	1.00 47.83	И
	N							
ATOM 13559	CA	THR I		52.121		82.141	1.00 49.85	C
ATOM 13561	CB	THR D		52.273		83.288	1.00 51.99	C
ATOM 13563		THR I		53.571		83.183	1.00 57.36	0
ATOM 13565	CG2	THR I	90	52.303	60.281	84.588	1.00 51.56	C
ATOM 13569	С	THR I	90	50.773	59.577	82.214	1.00 47.11	C
ATOM 13570	0	THR I		49.808		81.988	1.00 47.64	0
ATOM 13571	N	ALA I		50.695		82.502	1.00 45.03	N
				20.000		J	20.00	- ·

ATOM 13573	CA	ALA	D 93	1 49.4	105 57.551	82.488	1.00 42.38	С
ATOM 13575	СВ	ALA				81.130	1.00 41.09	C
ATOM 13579	C	ALA				82.851	1.00 40.25	C
ATOM 13580	Ö	ALA				82.869	1.00 41.74	ō
ATOM 13581	N	ILE				83.165	1.00 38.65	N
ATOM 13583	CA	ILE				83.189	1.00 36.52	C
ATOM 13585	CB	ILE				84.265	1.00 30.32	C
		ILE				85.587	1.00 37.41	C
ATOM 13587		ILE					1.00 33.88	C
ATOM 13590						86.604 84.213		C
ATOM 13594		ILE					1.00 36.13	C
ATOM 13598	C	ILE				81.803	1.00 33.73	0
ATOM 13599	0	ILE				81.214	1.00 32.00	
ATOM 13600	N	TYR				81.244	1.00 33.28	N
ATOM 13602	CA	TYR				79.948	1.00 32.94	C
ATOM 13604	CB	TYR				79.101	1.00 32.51	С
ATOM 13607	CG	TYR				78.742	1.00 35.57	С
ATOM 13608		TYR				79.683	1.00 38.55	C
ATOM 13610		TYR				79.320	1.00 40.44	C
ATOM 13612	CZ	TYR				78.008	1.00 38.75	C
ATOM 13613	ОН	TYR				77.620	1.00 36.83	0
ATOM 13615		TYR				77.070	1.00 37.22	C
ATOM 13617		TYR				77.450	1.00 37.91	C
ATOM 13619	С	TYR				80.099	1.00 32.47	С
ATOM 13620	0	TYR				80.771	1.00 33.93	0
ATOM 13621	N	TYR				79.461	1.00 31.81	N
ATOM 13623	CA	TYR				79.509	1.00 31.89	C
ATOM 13625	CB	TYR				79.927	1.00 31.43	С
ATOM 13628	CG	TYR	D 9			81.317	1.00 34.26	С
ATOM 13629	CD1	TYR	D 94	44.7		81.611	1.00 34.32	С
ATOM 13631	CE1	TYR	D 9	44.4	71 51.333	82.955	1.00 37.87	С
ATOM 13633	CZ	TYR	D 9			83.981	1.00 40.08	C
ATOM 13634	OH	TYR	D 9	44.3	50.719	85.322	1.00 44.06	0
ATOM 13636	CE2	TYR	D 9	44.8	49.120	83.681	1.00 39.37	C
ATOM 13638	CD2	TYR	D 9	45.0	65 48.720	82.362	1.00 37.60	C
ATOM 13640	С	TYR	D 94	46.7	66 48.458	78.114	1.00 31.19	С
ATOM 13641	0	TYR	D 9	46.5	95 49.162	77.134	1.00 28.84	0
ATOM 13642	N	CYS	D 9	5 46.8	303 47.114	78.094	1.00 32.31	N
ATOM 13644	CA	CYS	D 9!	5 46.3	46.326	76.978	1.00 31.63	C
ATOM 13646	CB	CYS	D 9!	5 47.4	07 45.367	76.555	1.00 32.86	С
ATOM 13649	SG	CYS	D 9!	5 47.8	37 44.087	77.682	1.00 36.32	S
ATOM 13650	С	CYS	D 9!	5 45.0	45.595	77.229	1.00 31.81	С
ATOM 13651	0	CYS	D 9!	5 44.5	45.489	78.338	1.00 32.84	0
ATOM 13652	N	ALA	D 9	5 44.4	15 45.138	76.170	1.00 31.66	N
ATOM 13654	CA	ALA	D 9	6 43.0	65 44.613	76.333	1.00 31.98	С
ATOM 13656	CB	ALA	D 9	5 42.0	67 45.738	76.560	1.00 31.73	С
ATOM 13660	С	ALA	D 9	5 42.6	10 43.789	75.189	1.00 31.15	C
ATOM 13661	0	ALA	D 9	5 43.1	.09 43.916	74.113	1.00 30.28	0
ATOM 13662	N	ARG	D 9	7 41.6	42.929	75.459	1.00 31.57	N
ATOM 13664	CA	ARG	D 9.	7 41.0	56 42.132	74.424	1.00 31.04	C
ATOM 13666	CB	ARG	D 9'	7 41.4	03 40.657	74.529	1.00 31.65	C
ATOM 13669	CG	ARG	D 9'	7 41.3	39.961	73.252	1.00 30.26	C
ATOM 13672	CD	ARG	D 9'	7 41.1	.06 38.522	73.380	1.00 33.63	С
ATOM 13675	NE	ARG	D 9'	7 39.6	38.270	73.544	1.00 35.37	N
ATOM 13677	CZ	ARG	D 9'	7 39.1	19 37.052	73.723	1.00 37.21	C
ATOM 13678	NH1	ARG	D 9'	7 39.8	55 35.971	73.753	1.00 39.36	N
ATOM 13681	NH2	ARG	D 9	7 37.7	97 36.905	73.786	1.00 38.08	N
ATOM 13684	С	ARG	D 9'	7 39.6	32 42.302	74.578	1.00 30.96	C
ATOM 13685	0	ARG	D 9'	7 39.1	30 42.243	75.686	1.00 31.79	0
ATOM 13686	N	ALA	D 98	38.9	81 42.482	73.441	1.00 30.39	N
ATOM 13688	CA	ALA				73.374	1.00 30.35	С
ATOM 13690	CB	ALA				71.958	1.00 30.65	С
ATOM 13694	C	ALA				73.769	1.00 31.90	C
ATOM 13695	0	ALA				73.670	1.00 31.68	Ō
ATOM 13696	N	LEU				74.134	1.00 33.49	N
ATOM 13698	CA	LEU				74.405	1.00 35.36	C
ATOM 13700	CB	LEU				75.166	1.00 36.53	C
ATOM 13703	CG	LEU				75.632	1.00 37.57	Ċ
ATOM 13705		LEU				76.786	1.00 39.95	Ċ
							33.33	-

ZV du CVVt	13709	CD2	LEU	Ъ	99	31.538	39.533	75.980	1.00 38.23	С
	13713	С	LEU		99	34.636	39.123	73.129	1.00 34.97	С
ATOM	13714	0	LEU	D	99	34.376	37.955	73.165	1.00 38.11	0
MOTA	13715	N	THR	D	100	34.604	39.801	72.007	1.00 33.14	N
ATOM	13717	CA	THR	D	100	34.004	39.285	70.772	1.00 32.28	С
	13719	СВ	THR			32.617	39.874	70.631	1.00 33.08	С
		OG1	THR			31.693	39.072	71.380	1.00 32.58	0
	13721									
	13723	CG2	THR			32.098	39.948	69.118	1.00 37.21	C
ATOM	13727	С	THR	D	100	34.873	39.702	69.604	1.00 31.13	C
ATOM	13728	0	THR	D	100	35.471	40.785	69.620	1.00 30.37	0
АТОМ	13729	N	TYR	D	101	34.993	38.833	68.611	1.00 31.37	N
	13731	CA	TYR			35.703	39.160	67.419	1.00 30.84	Ċ
										Ċ
	13733	CB	TYR			35.437	38.137	66.314	1.00 32.08	
	13736	CG	TYR			35.629	36.729	66.805	1.00 34.25	С
ATOM	13737	CD1	TYR	D	101	34.583	35.941	67.097	1.00 38.88	C
MOTA	13739	CE1	TYR	D	101	34.750	34.707	67.562	1.00 39.52	С
ATOM	13741	CZ	TYR	D	101	35.946	34.269	67.763	1.00 38.52	С
	13742	OH	TYR			36.095	33.043	68.238	1.00 44.46	ō
	13744	CE2	TYR			36.986	34.992	67.497	1.00 36.82	C
	13746	CD2				36.835	36.231	67.048	1.00 35.53	С
ATOM	13748	С	TYR	D	101	35.277	40.529	66.932	1.00 30.86	C
ATOM	13749	0	TYR	D	101	34.084	40.893	66.955	1.00 33.11	0
ATOM	13750	N	TYR	D	102	36.280	41.279	66.517	1.00 29.81	N
	13752	CA	TYR			36.191	42.562	65.853	1.00 29.45	C
	13754	CB	TYR			35.565	42.386	64.481	1.00 30.72	C
ATOM	13757	CG	TYR			36.154	41.295	63.698	1.00 28.52	C
ATOM	13758	CD1	TYR	D	102	35.328	40.351	63.085	1.00 32.83	C
ATOM	13760	CE1	TYR	D	102	35.834	39.306	62.287	1.00 32.70	C
АТОМ	13762	CZ	TYR	D	102	37.178	39.172	62.157	1.00 29.94	С
	13763	OH	TYR			37.581	38.164	61.424	1.00 30.00	Ö
	13765	CE2	TYR			38.019	40.076	62.744	1.00 29.21	C
	13767	CD2	TYR			37.461	41.196	63.511	1.00 26.98	C
ATOM	13769	С	TYR	D	102	35.564	43.702	66.606	1.00 29.34	C
ATOM	13770	0	TYR	D	102	35.211	44.753	65.993	1.00 31.06	0
ATOM	13771	N	ASP	D	103	35.453	43.560	67.911	1.00 29.51	N
	13773	CA	ASP			34.621	44.510	68.693	1.00 31.57	Ċ
										č
	13775	CB	ASP			33.523	43.743	69.392	1.00 32.31	
	13778	CG	ASP			32.231	44.541	69.603	1.00 35.50	C
ATOM	13779	OD1	ASP	D	103	32.229	45.811	69.699	1.00 37.86	0
ATOM	13780	OD2	ASP	D	103	31.147	43.932	69.760	1.00 33.03	0
ATOM	13781	С	ASP	D	103	35.493	45.285	69.688	1.00 31.31	C
ATOM	13782	0	ASP	D	103	36.726	45.130	69.654	1.00 30.80	0
	13783	N	TYR			34.867	46.062	70.572	1.00 32.47	Ŋ
	13785		TYR						1.00 33.02	Č
		CA				35.564	47.042	71.419		
	13787	CB	TYR			35.387	48.429	70.847	1.00 32.52	C
ATOM	13790	CG	TYR	D	104	35.855	48.529	69.452	1.00 32.49	C
ATOM	13791	CD1	TYR	D	104	35.051	48.168	68.386	1.00 34.38	C
ATOM	13793	CE1	TYR	D	104	35.511	48.235	67.060	1.00 36.47	C
MOTA	13795	CZ	TYR			36.784	48.661	66.851	1.00 40.26	C
	13796	ОН	TYR			37.335	48.820	65.555	1.00 42.04	0
	13798		TYR			37.581	48.984	67.959	1.00 36.79	č
	13800		TYR			37.121	48.927	69.194	1.00 32.46	C
	13802	С	TYR			35.042	47.079	72.872	1.00 35.19	C
MOTA	13803	0	TYR	D	104	35.119	48.144	73.559	1.00 36.99	0
MOTA	13804	N	GLU	D	105	34.624	45.896	73.331	1.00 35.25	N
MOTA	13806	CA	GLU	D	105	33.892	45.637	74.609	1.00 37.05	C
	13808	CB	GLU			32.653	44.759	74.311	1.00 38.39	Č
										Č
	13811	CG	GLU			33.162	43.726	73.210	1.00 39.20	
	13814	CD	GLU			32.119	42.797	72.800	1.00 43.24	C
	13815		GLU			30.967	43.102	73.166	1.00 50.60	0
ATOM	13816	OE2	GLU	D	105	32.424	41.815	72.145	1.00 41.17	0
ATOM	13817	C	GLU	D	105	34.955	44.885	75.449	1.00 34.79	С
	13818	ō	GLU			35.096	43.674	75.450	1.00 33.21	Ö
	13819	N	PHE			35.794	45.663	76.079	1.00 34.74	N
	13821	CA	PHE			36.971	45.106	76.719	1.00 33.56	C
	13823	CB	PHE			37.941	46.202	76.907	1.00 32.11	C
ATOM	13826	CG	PHE	D	106	38.218	46.917	75.658	1.00 32.00	C
MOTA	13827	CD1	PHE	D	106	38.095	48.287	75.563	1.00 36.38	С

7 TIOM 12020	CE1 PHE D 106	38.440	48.935	74.393	1.00 34.66	С
ATOM 13829						
ATOM 13831	CZ PHE D 106	38.862	48.191	73.304	1.00 30.31	C
ATOM 13833	CE2 PHE D 106	38.918	46.865	73.389	1.00 29.09	С
ATOM 13835	CD2 PHE D 106	38.605	46.234	74.565	1.00 30.59	С
ATOM 13837	C PHE D 106	36.657	44.375	78.016	1.00 34.43	C
ATOM 13838	O PHE D 106	36.441	44.995	79.034	1.00 36.37	0
ATOM 13839	N ALA D 107	36.649	43.050	77.934	1.00 33.57	N
						C
ATOM 13841	CA ALA D 107	36.320	42.181	79.035	1.00 35.28	
ATOM 13843	CB ALA D 107	35.614	40.888	78.539	1.00 35.86	С
ATOM 13847	C ALA D 107	37.554	41.780	79.759	1.00 35.97	С
ATOM 13848	O ALA D 107	37.409	41.351	80.903	1.00 38.66	0
ATOM 13849	N TYR D 108	38.716	41.898	79.101	1.00 33.76	N
ATOM 13851	CA TYR D 108	39.993	41.378	79.567	1.00 34.96	С
			40.163	78.709	1.00 34.47	Č
ATOM 13853	CB TYR D 108	40.460				
ATOM 13856	CG TYR D 108	39.440	39.099	78.601	1.00 35.04	C
ATOM 13857	CD1 TYR D 108	38.726	38.850	77.407	1.00 35.31	C
ATOM 13859	CE1 TYR D 108	37.743	37.862	77.365	1.00 35.79	C
ATOM 13861	CZ TYR D 108	37.474	37.182	78.535	1.00 38.03	C
ATOM 13862	OH TYR D 108	36.533	36.206	78.654	1.00 44.30	0
ATOM 13864	CE2 TYR D 108	38.152	37.435	79.680	1.00 38.12	C
						C
ATOM 13866	CD2 TYR D 108	39.139	38.355	79.697	1.00 37.41	
ATOM 13868	C TYR D 108	41.038	42.466	79.377	1.00 34.37	C
ATOM 13869	O TYR D 108	41.156	42.969	78.276	1.00 33.58	0
ATOM 13870	N TRP D 109	41.817	42.778	80.431	1.00 35.51	N
ATOM 13872	CA TRP D 109	42.755	43.898	80.499	1.00 33.04	C
ATOM 13874	CB TRP D 109	42.188	45.019	81.373	1.00 33.12	C
ATOM 13877	CG TRP D 109	40.965	45.716	80.852	1.00 33.03	C
			45.182	80.686	1.00 35.04	Č
ATOM 13878	CD1 TRP D 109	39.735				
ATOM 13880	NE1 TRP D 109	38.877	46.105	80.136	1.00 35.58	И
ATOM 13882	CE2 TRP D 109	39.559	47.266	79.932	1.00 33.94	С
ATOM 13883	CD2 TRP D 109	40.878	47.049	80.343	1.00 33.28	C
ATOM 13884	CE3 TRP D 109	41.789	48.075	80.166	1.00 33.80	C
ATOM 13886	CZ3 TRP D 109	41.349	49.277	79.611	1.00 33.42	C
ATOM 13888	CH2 TRP D 109	40.051	49.447	79.228	1.00 33.69	С
	CZ2 TRP D 109	39.129	48.465	79.401	1.00 33.31	Č
ATOM 13890						
ATOM 13892	C TRP D 109	43.970	43.405	81.176	1.00 34.87	C
ATOM 13893	O TRP D 109	43.919	42.614	82.081	1.00 37.35	0
ATOM 13894	N GLY D 110	45.108	43.904	80.769	1.00 35.09	N
ATOM 13896	CA GLY D 110	46.304	43.773	81.543	1.00 35.48	C
ATOM 13899	C GLY D 110	46.167	44.509	82.858	1.00 36.71	С
ATOM 13900	O GLY D 110	45.170	45.206	83.165	1.00 35.65	0
ATOM 13901	N GLN D 111	47.194	44.292	83.674	1.00 38.41	N
ATOM 13901 ATOM 13903		47.290	44.909	84.986	1.00 39.88	C
ATOM 13905	CB GLN D 111	48.241	44.104	85.886	1.00 42.53	C
ATOM 13908	CG GLN D 111	49.725	44.447	85.776	1.00 42.86	С
ATOM 13911	CD GLN D 111	50.463	43.616	84.777	1.00 41.89	С
ATOM 13912	OE1 GLN D 111	51.637	43.438	84.917	1.00 44.32	0
ATOM 13913	NE2 GLN D 111	49.790	43.179	83.713	1.00 41.71	N
ATOM 13916	C GLN D 111	47.694	46.381	84.902	1.00 38.77	C
ATOM 13917	O GLN D 111	47.649	47.095	85.877	1.00 40.58	0
ATOM 13918	N GLY D 112	48.078	46.845	83.738	1.00 36.79	И
					1.00 33.73	
ATOM 13920	CA GLY D 112	48.429	48.224	83.606		C
ATOM 13923	C GLY D 112	49.899	48.474	83.858	1.00 39.24	С
ATOM 13924	O GLY D 112	50.520	47.788	84.674	1.00 42.52	0
ATOM 13925	N THR D 113	50.463	49.436	83.139	1.00 38.68	N
ATOM 13927	CA THR D 113	51.785	49.879	83.417	1.00 41.03	C
ATOM 13929	CB THR D 113	52.612	49.719	82.180	1.00 40.97	С
ATOM 13921	OG1 THR D 113	52.785	48.325	81.891	1.00 40.85	0
ATOM 13933	CG2 THR D 113	54.036	50.254	82.416	1.00 42.53	C
ATOM 13937	C THR D 113	51.750	51.353	83.870	1.00 42.14	C
ATOM 13938	O THR D 113	51.250	52.198	83.134	1.00 40.31	0
ATOM 13939	N LEU D 114	52.270	51.637	85.076	1.00 44.50	N
ATOM 13941	CA LEU D 114	52.295	52.984	85.606	1.00 45.15	C
ATOM 13943	CB LEU D 114	52.560	52.927	87.087	1.00 47.24	С
ATOM 13946	CG LEU D 114	52.578	54.312	87.753	1.00 48.79	Č
				87.733	1.00 49.87	c
ATOM 13948	CD1 LEU D 114	51.232	54.921			
ATOM 13952	CD2 LEU D 114	53.087	54.296	89.213	1.00 51.70	C
ATOM 13956	C LEU D 114	53.444	53.717	84.956	1.00 46.43	С

ATOM 13957	0	LEU	D	114	54.584	53.494	85.359	1.00 48	.45	0
ATOM 13958	N	VAL	D	115	53.174	54.617	84.008	1.00 44	.80	N
ATOM 13960	CA	VAL	D	115	54.248	55.285	83.274	1.00 45	.32	С
ATOM 13962	CB	VAL	D	115	53.999	55.303	81.781	1.00 43		С
ATOM 13964		VAL			55.038	56.092	81.076	1.00 45		С
ATOM 13968	CG2	VAL			54.011	53.915	81.240	1.00 45		С
ATOM 13972	С	VAL			54.332	56.717	83.635	1.00 46		С
ATOM 13973	0	VAL			53.342	57.421	83.507	1.00 46		0
ATOM 13974	N	THR			55.549	57.149	83.931	1.00 47		N
ATOM 13976	CA	THR			55.876	58.442	84.504	1.00 49		C
ATOM 13978	CB	THR			56.559	58.139	85.826 86.446	1.00 51 1.00 49		C
ATOM 13980		THR			55.851 56.561	57.040 59.345	86.814	1.00 49		C
ATOM 13982 ATOM 13986	CGZ	THR THR			56.870	59.154	83.611	1.00 52		C
ATOM 13987	0	THR			57.880	58.600	83.330	1.00 50		Ö
ATOM 13988	N	VAL			56.626	60.382	83.209	1.00 50		N
ATOM 13990	CA	VAL			57.511	61.021	82.292	1.00 52		C
ATOM 13992	CB	VAL			56.786	61.424	81.067	1.00 52		C
ATOM 13994		VAL			57.669	62.056	80.124	1.00 54	.34	C
ATOM 13998	CG2	VAL	D	117	56.235	60.219	80.389	1.00 51	.45	C
ATOM 14002	C	VAL	D	117	58.169	62.215	82.941	1.00 57	.15	C
ATOM 14003	0	VAL	D	117	57.575	63.264	83.139	1.00 59	.15	0
ATOM 14004	N	SER	D	118	59.443	62.064	83.257	1.00 59		N
ATOM 14006	CA	SER			60.162	63.096	83.950	1.00 63		C
ATOM 14008	CB	SER			59.855	62.996	85.452	1.00 63		C
ATOM 14011	OG	SER			60.736	63.764	86.268	1.00 66		0
ATOM 14013	С	SER			61.614	62.834	83.640	1.00 66		C
ATOM 14014	0	SER			62.005	61.685	83.390	1.00 64 1.00 54		N
ATOM 14015	N	ALA			62.406 63.822	63.899 63.741	83.602 83.347	1.00 54		C
ATOM 14017 ATOM 14019	CA CB	ALA ALA			64.349	64.894	82.555	1.00 57		C
ATOM 14013 ATOM 14023	CD	ALA			64.549	63.610	84.672	1.00 55		C
ATOM 14023	Õ	ALA			65.775	63.529	84.729	1.00 56		Õ
ATOM 14025	N	ALA			63.807	63.582	85.753	1.00 53		N
ATOM 14027	CA	ALA			64.453	63.464	87.038	1.00 53		С
ATOM 14029	CB	ALA			63.469	63.824	88.155	1.00 53	.59	С
ATOM 14033	С	ALA	D	120	64.930	62.055	87.236	1.00 53	.49	C
ATOM 14034	0	ALA	D	120	64.510	61.091	86.561	1.00 52	. 47	0
ATOM 14035	N	SER	D	121	65.770	61.966	88.241	1.00 54	. 49	N
ATOM 14037	CA	SER			66.445	60.753	88.607	1.00 55		С
ATOM 14039	CB	SER			67.839	61.096	89.074	1.00 58		С
ATOM 14042	OG	SER			67.715	61.672	90.340	1.00 57		0
ATOM 14044	C	SER			65.723	60.084	89.756	1.00 54		C
ATOM 14045	0	SER			65.234	60.737	90.667	1.00 54		N
ATOM 14046	N	THR			65.671	58.761 57.902	89.676 90.720	1.00 54 1.00 53		C
ATOM 14048	CA	THR			65.177 65.387	56.504	90.720	1.00 54		C
ATOM 14050 ATOM 14052	CB OG1	THR THR			64.463	56.273	89.190	1.00 52		0
ATOM 14052 ATOM 14054		THR			65.040	55.501	91.265	1.00 55		C
ATOM 14058	C	THR			65.900	58.103	92.036	1.00 54		C
ATOM 14059	Ö	THR			67.082	58.370	92.070	1.00 57		0
ATOM 14060	N			123	65.155	57.970	93.101	1.00 52	.70	И
ATOM 14062	CA			123	65.617	58.079	94.434	1.00 54	.77	С
ATOM 14064	CB	LYS	D	123	65.602	59.545	94.866	1.00 55	.21	С
ATOM 14067	CG	LYS	D	123	65.630	59.764	96.421	1.00 58	.84	С
ATOM 14070	CD	LYS			66.294	61.098	96.875	1.00 62		С
ATOM 14073	CE	LYS			66.371	61.121	98.457	1.00 68		С
ATOM 14076	NZ	LYS			67.102	62.300	99.097	1.00 74		Ŋ
ATOM 14080	C			123	64.761	57.241	95.373	1.00 54		C
ATOM 14081	0			123	63.536	57.235	95.342	1.00 52		0
ATOM 14082	N			124	65.417	56.518	96.234	1.00 57		N
ATOM 14084	CA			124	64.733	55.809	97.291	1.00 58 1.00 58		C C
ATOM 14087	C			$\frac{124}{124}$	64.316 64.894	56.758 57.864	98.400 98.560	1.00 58		0
ATOM 14088 ATOM 14089	O N			125	63.310	56.315	99.155	1.00 58		И
ATOM 14089 ATOM 14090	CA			125	62.713		100.230	1.00 58		C
ATOM 14090 ATOM 14092	CB			125	61.436		100.539	1.00 57		C
ATOM 14092 ATOM 14095	CG			125	61.782		100.208	1.00 59		Č
3			_		, .					

A CHOM	14000	CD	DBO	D	125	62 600	54 070	00 025	1.00 59.00	C
	14098	CD			125	62.690	54.979	99.035		C
	14101	C			125	63.552		101.469	1.00 62.83	C
	14102	0			125	64.321		101.644	1.00 64.70	0
	14103	N			126	63.389		102.297	1.00 63.66	N
	14105	CA			126	63.821		103.670	1.00 68.27	С
	14107	CB			126	64.670		104.016	1.00 71.00	C
ATOM	14110	OG			126	63.979		103.680	1.00 70.40	0
ATOM	14112	Ç			126	62.520		104.480	1.00 67.10	С
	14113	0	SER	D	126	61.438		103.960	1.00 63.05	0
ATOM	14114	N	VAL	D	127	62.644		105.709	1.00 70.81	N
ATOM	14116	CA	VAL	D	127	61.531		106.473	1.00 70.08	С
MOTA	14118	CB	VAL	D	127	61.577	55.231	106.423	1.00 71.07	С
MOTA	14120	CG1	VAL	D	127	60.469	54.669	107.223	1.00 72.19	C
MOTA	14124	CG2	VAL	D	127	61.482	54.719	105.003	1.00 66.98	C
ATOM	14128	C	VAL	D	127	61.614	57.164	107.935	1.00 73.31	С
ATOM	14129	0	VAL	D	127	62.406	56.660	108.598	1.00 76.86	0
MOTA	14130	N	PHE	D	128	60.795	58.080	108.402	1.00 72.76	N
ATOM	14132	CA	PHE	D	128	60.755	58.481	109.789	1.00 77.52	С
ATOM	14134	CB	PHE	D	128	60.660	60.012	109.858	1.00 77.44	С
ATOM	14137	CG	PHE	D	128	61.762	60.709	109.068	1.00 78.35	C
ATOM	14138	CD1	PHE	D	128	61.473	61.588	108.023	1.00 74.99	С
ATOM	14140	CE1	PHE	D	128	62.471	62.155	107.297	1.00 73.17	C
ATOM	14142	CZ	PHE	D	128	63.765	61.868	107.582	1.00 77.82	C
ATOM	14144	CE2	PHE	D	128	64.074	61.016	108.582	1.00 80.68	C
ATOM	14146	CD2	PHE	D	128	63.089		109.318	1.00 80.90	С
	14148	C			128	59.576		110.461	1.00 78.03	С
	14149	Ō			128	58.667		109.780	1.00 74.02	0
	14150	N			129	59.604		111.781	1.00 84.09	N
	14151	CA			129	58.457		112.494	1.00 85.22	C
	14153	CB			129	59.078		113.776	1.00 91.56	Ċ
	14156	CG			129	60.132		114.071	1.00 94.86	Ċ
	14159	CD			129	60.703		112.717	1.00 90.22	Ċ
	14162	C			129	57.522		112.818	1.00 85.06	Ċ
	14163	0			129	57.900		112.572	1.00 85.76	0
	14164	N			130	56.343		113.342	1.00 85.59	И
	14166	CA	LEU		130	55.394		113.824	1.00 85.82	C
	14168	CB			130	54.239		112.847	1.00 80.81	C
	14171	CG	LEU		130	54.384		111.434	1.00 76.34	C
	14173		LEU			53.028		110.732	1.00 73.31	C
	14177		LEU			54.855		111.414	1.00 77.79	Ċ
	14181	C			130	54.860		115.070	1.00 90.47	C
	14182	0			130	53.815		115.037	1.00 30.47	0
	14183	И	ALA			55.601		116.162	1.00 96.32	N
	14185	CA			131	55.347		117.353	1.00101.04	C
	14187	CB			131	56.545		118.237	1.00107.25	C
	14191	C	ALA			54.118		118.109	1.00107.25	C
	14192	0	ALA			53.813		118.068	1.00102.90	0
	14193				132	53.447		118.830	1.00106.22	N N
	14194	N CA			132	52.215		119.582	1.00108.61	C
	14196	CB			132	51.637		119.870	1.00109.88	Ċ
	14199	CG			132	52.854		120.013	1.00111.73	C
	14202	CD			132	53.831		119.007	1.00108.34	C
	14202				132	52.484		120.916	1.00105.54	C
		C			132			120.910	1.00120.74	
	14206 14207	O N			133	51.947 53.261		120.859	1.00120.74	0 N
		N								
	14209	CA			133	54.103		122.000 121.636	1.00124.00 1.00124.54	C
	14211	CB			133	55.207 54.848				
	14214	OG			133			120.645	1.00118.70	0
	14216	C			133	53.234		123.172	1.00129.46	С
MION	14217	N			133	52.147		122.931	1.00127.35	O N
7 111 11 11	1/010	134	ひほス	Ŋ	134	53.726		124.396	1.00136.79	N C
	14218		CEED	n						
ATOM	14220	CA	SER			52.982		125.685	1.00143.02	
ATOM ATOM	14220 14222	CA CB	SER	D	134	53.599	60.774	126.704	1.00150.95	C
MOTA MOTA MOTA	14220 14222 14225	CA CB OG	SER SER	D D	134 134	53.599 53.463	60.774 62.111	126.704 126.259	1.00150.95 1.00149.72	CO
ATOM ATOM ATOM ATOM	14220 14222 14225 14227	CA CB OG C	SER SER SER	D D D	134 134 134	53.599 53.463 51.470	60.774 62.111 60.022	126.704 126.259 125.546	1.00150.95 1.00149.72 1.00140.00	C O C
ATOM ATOM ATOM ATOM ATOM	14220 14222 14225 14227 14228	CA CB OG C	SER SER SER SER	D D D	134 134 134 134	53.599 53.463 51.470 50.863	60.774 62.111 60.022 60.833	126.704 126.259 125.546 126.267	1.00150.95 1.00149.72 1.00140.00 1.00144.16	0 0 0
MOTA MOTA MOTA MOTA MOTA MOTA	14220 14222 14225 14227	CA CB OG C	SER SER SER SER LYS	D D D D	134 134 134	53.599 53.463 51.470	60.774 62.111 60.022 60.833 59.254	126.704 126.259 125.546	1.00150.95 1.00149.72 1.00140.00	C O C

ATOM 14233	СВ	LYS	D 135	49.180	58.611 122	963	1.00122.30	С
ATOM 14240	C		D 135	48.725	58.746 125		1.00135.96	Č
ATOM 14240 ATOM 14241	0		D 135	48.452	57.551 125		1.00135.99	0
								N
ATOM 14242	N		D 136	48.443	59.541 126		1.00141.90	
ATOM 14244	CA		D 136	47.762	58.997 127		1.00148.08	C
ATOM 14246	CB		D 136	48.003	59.872 128		1.00156.17	C
ATOM 14249	OG	SER	D 136	47.204	59.449 130	.043	1.00160.68	0
ATOM 14251	С	SER	D 136	46.252	58.781 127	.358	1.00145.76	C
ATOM 14252	0	SER	D 136	45.478	59.749 127	.277	1.00145.97	0
ATOM 14253	N	THR	D 137	45.887	57.508 127	.105	1.00143.97	N
ATOM 14255	CA		D 137	44.495	57.012 126	.990	1.00142.86	C
ATOM 14257	CB		D 137	43.968	56.999 125		1.00134.89	С
ATOM 14259			D 137	44.846	57.734 124		1.00129.83	Ö
ATOM 14261	CG2		D 137	42.567	57.671 125		1.00134.26	Č
ATOM 14265	C		D 137	44.440	55.570 127		1.00134.20	C
ATOM 14266	0		D 137	44.505	54.608 126		1.00142.87	0
ATOM 14267	N	SER		44.364	55.417 128		1.00153.23	N
ATOM 14269	CA		D 138	44.243	54.088 129		1.00157.67	С
ATOM 14271	CB		D 138	43.834	54.215 131		1.00166.65	C
ATOM 14274	OG	SER	D 138	42.567	53.646 131	354	1.00167.36	0
ATOM 14276	С	SER	D 138	43.278	53.162 128	.739	1.00154.58	C
ATOM 14277	0	SER	D 138	43.711	52.177 128	.126	1.00151.95	0
ATOM 14278	N	GLY	D 139	41.984	53.513 128	.758	1.00155.39	N
ATOM 14280	CA	GLY	D 139	40.916	52.737 128	.132	1.00153.62	С
ATOM 14283	С		D 139	40.310	53.374 126		1.00147.16	C
ATOM 14284	Ō		D 139	39.078	53.540 126		1.00148.77	0
ATOM 14285	N		D 140	41.159	53.757 125		1.00140.58	N
ATOM 14287	CA		D 140	40.785	54.070 124		1.00133.65	C
ATOM 14290					53.685 123		1.00133.03	C
	C		D 140	41.900				
ATOM 14291	0		D 140	43.034	53.341 123		1.00129.62	0
ATOM 14292	N		D 141	41.622	53.770 122		1.00122.35	N
ATOM 14294	CA		D 141	42.543	53.206 121		1.00117.27	C
ATOM 14296	CB		D 141	41.749	52.518 120		1.00114.37	C
ATOM 14298	OG1	THR	D 141	41.283	51.237 120	.468	1.00118.95	0
ATOM 14300	CG2	THR	D 141	42.640	52.107 118	.885	1.00110.43	C
ATOM 14304	C	THR	D 141	43.460	54.289 120	.658	1.00112.42	C
ATOM 14305	0	THR	D 141	43.007	55.385 120	.437	1.00110.84	0
ATOM 14306	N	ALA	D 142	44.744	53.980 120	.495	1.00110.72	N
ATOM 14308	CA	ALA	D 142	45.741	54.969 120	.088	1.00107.63	С
ATOM 14310	СВ		D 142	46.854	55.047 121	.088	1.00111.82	С
ATOM 14314	C		D 142	46.308	54.630 118		1.00102.27	C
ATOM 14315	Ö		D 142	46.122	53.503 118		1.00101.65	Ō
ATOM 14316	N		D 143	47.020	55.610 118		1.00 98.80	N
ATOM 14318	CA		D 143	47.476	55.602 116		1.00 93.39	C
ATOM 14318 ATOM 14320	CB		D 143	46.600	56.585 115		1.00 89.96	C
					55.943 116			C
ATOM 14324	C		D 143	48.970			1.00 92.18	
ATOM 14325	0		D 143	49.568	56.769 117		1.00 93.80	0
ATOM 14326	И		D 144	49.547	55.316 115		1.00 88.87	N
ATOM 14328	CA		D 144	50.950	55.507 115		1.00 88.48	C
ATOM 14330	CB		D 144	51.793	54.604 116	5.101	1.00 93.10	C
ATOM 14333	CG		D 144	51.319	53.166 116	.222	1.00 94.60	C
ATOM 14335	CD1	LEU	D 144	51.776	52.328 115	.026	1.00 91.71	С
ATOM 14339	CD2	LEU	D 144	51.849	52.610 117	.557	1.00101.82	C
ATOM 14343	С	LEU	D 144	51.243	55.237 113	3.737	1.00 84.16	С
ATOM 14344	0	LEU	D 144	50.331	54.826 112		1.00 81.75	0
ATOM 14345	N		D 145	52.504	55.438 113		1.00 83.52	N
ATOM 14347	CA		D 145	52.856	55.270 111		1.00 79.91	C
ATOM 14347	C		D 145	54.282	55.538 111		1.00 79.57	C
								0
ATOM 14351	0		D 145	55.304	55.437 112		1.00 83.32	
ATOM 14352	N		D 146	54.312	55.893 110		1.00 75.22	N
ATOM 14354	CA		D 146	55.508	55.855 109		1.00 73.84	C
ATOM 14356	CB		D 146	55.664	54.503 108		1.00 73.43	С
ATOM 14359	SG		D 146	56.308	53.216 109		1.00 81.52	S
ATOM 14360	С	CYS	D 146	55.384	56.912 108		1.00 69.05	С
ATOM 14361	0	CYS	D 146	54.402	56.950 107	.391	1.00 65.38	0
ATOM 14362	N	LEU	D 147	56.406	57.747 108	3.065	1.00 68.91	N
ATOM 14364	CA	LEU	D 147	56.432	58.804 107	1.109	1.00 65.13	С
ATOM 14366	CB		D 147	56.963	60.025 107	7.764	1.00 67.65	С

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MOTA	14369	CG	LEU	D	147	57.069	61.227	106.873	1.00	67.06	C
A TOM	14371	CDI	LEU	D	147	55.724	61 483	106.297	1.00	65.61	C
ATOM	14375	CD2	LEU	ט	14/	57.559	62.440	107.688		71.20	C
ATOM	14379	С	LEU	D	147	57.370	58.331	106.083	1.00	63.16	C
	14380	0	LEU	D	147	58.552	58.304	106.328	1 - 00	64.33	0
MOTA	14381	N	VAL	ח	148	56.830		104.943		60.56	N
ATOM	14383	CA	VAL	D	148	57.671	57.588	103.762	1.00	59.44	C
	14385	CB	VAL	n	1/10	57.170	56 371	103.022	1 00	57.55	C
											Ċ
MOTA	14387	CGT	VAL	D	148	58.149		101.950		56.88	
ATOM	14391	CG2	VAL	D	148	57.071	55.207	103.985	1.00	60.14	C
	14395	С	VAL	D	148	57.880	58.789	102.783	1.00	57.27	C
										56.19	Ō
AT'OM	14396	0	VAL			56.988		102.012			
ATOM	14397	И	LYS	D	149	59.063	59.372	102.818	1.00	57.66	N
ΔΤΟΜ	14399	CA	LYS	D	149	59.293	60.687	102.272	1.00	56.80	C
										60.19	С
ATOM	14401	CB	LYS			59.604		103.479			
ATOM	14404	CG	LYS	D	149	60.038	63.016	103.218	1.00	62.14	C
Δ Tr OM	14407	CD	LYS	D	149	59.519	63,986	104.319	1.00	64.95	C
								103.856		66.61	С
	14410	CE	LYS			59.517					
ATOM	14413	NZ	LYS	D	149	60.933	65.996	103.508	1.00	69.35	N
АТОМ	14417	С	LYS	D	149	60.435	60.715	101.246	1.00	56.13	C
			LYS			61.365		101.268		58.22	0
	14418	0									
MOTA	14419	N	ASP	D	150	60.363	61.652	100.340	1.00	54.55	N
ATOM	14421	CA	ASP	D	150	61.444	61.929	99.384	1.00	54.34	C
	14423		ASP			62.629	62 585	100.090	1 00	58.17	С
		CB									
ATOM	14426	CG	ASP	D	150	62.264	63.912	100.695	1.00	60.09	С
ATOM	14427	OD1	ASP	D	150	62.982	64.376	101.590	1.00	69.14	0
	14428		ASP			61.267	64 570	100.383	1.00	58.91	0
											Ċ
ATOM	14429	С	ASP	ט	150	61.896	60.772	98.527		52.77	
MOTA	14430	0	ASP	D	150	63.026	60.348	98.599	1.00	54.66	0
$\Delta T \cap M$	14431	N	TYR	D	151	60.981	60.295	97.682	1.00	50.75	N
								96.706		49.16	C
ATOM	14433	CA	TYR			61.252	59.228				
ATOM	14435	СВ	TYR	D	151	60.723	57.880	97.179	1.00	49.80	C
ΣΑΤΌΜ	14438	CG	TYR	D	151	59.222	57.790	97.252	1.00	48.09	C
						58.483	57.376	96.154		46.12	С
	14439		TYR								
ATOM	14441	CE1	TYR	D	151	57.135	57.321	96.171	T.00	45.49	С
ATOM	14443	CZ	TYR	D	151	56.438	57.658	97.307	1.00	45.19	C
	14444	OH	TYR			55.092	57.521	97.328	1 00	43.36	0
											c
ATOM	14446	CE2	TYR	D	151	57.101	58.077	98.410		49.83	
MOTA	14448	CD2	TYR	D	151	58.545	58.130	98.391	1.00	49.84	С
	14450	С	TVD	D	151	60.657	59.567	95.382	1.00	46.65	C
											0
MOTA	14451	0			151	59.792	60.426	95.271		44.77	
MOTA	14452	N	PHE	D	152	61.155	58.867	94.379	1.00	46.98	N
дπ∩м	14454	CA	PHE	D	152	60.724	59.046	93.020	1.00	46.06	C
							60.378	92.532		46.70	C
	14456	CB			152	61.221					
MOTA	14459	CG	$_{\mathrm{PHE}}$	D	152	60.649	60.766	91.240		46.30	C
МОТА	14460	CD1	PHE	D	152	61.258	60.423	90.090	1.00	47.89	C
	14462		PHE			60.726	60.772	88.909		47.13	С
MOTA	14464	CZ			152	59.636	61.473	88.857		43.58	C
ATOM	14466	CE2	PHE	D	152	59.024	61.811	89.990	1.00	45.67	C
	14468		PHE			59.510	61.472	91.174		44.91	C
					152	61.265	57.933	92.107		47.13	C
ATOM	14470	С									
MOTA	14471	0	PHE	D	152	62.368	57.460	92.281	1.00	46.91	0
MOTA	14472	N	PRO	D	153	60.458	57.446	91.172	1.00	47.74	N
	14473				153	59.064	57.821	91.009	1 00	46.84	C
		CA									
MOTA	14475	CB			153	58.855	57.629	89.519		47.99	С
MOTA	14478	CG	PRO	D	153	59.782	56.422	89.160	1.00	49.21	C
	14481	CD			153	60.823	56.380	90.221		49.16	C
											Č
	14484	С			153	58.259	56.813			46.89	
MOTA	14485	0	PRO	D	153	58.853	56.011	92.434	1.00	46.53	0
	14486	N			154	56.945	56.877	91.635	1.00	47.75	N
								92.262		49.53	C
	14488	CA			154	56.045	55.904				
MOTA	14490	СB	GLU	D	154	54.615	56.391	92.071		49.61	С
ATOM	14493	CG	GLU	D	154	54.229	57.558	92.949	1.00	48.55	C
		CD			154	53.234	57.082			51.59	С
	14496										
ATOM	14497		GLU			53.672	56.795			50.24	0
ATOM	14498	OE2	GLU	D	154	52.016	56.961	93.650		52.02	0
	14499	С			154	56.182	54.533			51.99	C
											Ö
AT'OM	14500	0	GPO	ט	154	56.757	54.438	20.43L	T.00	52.94	U

MOTA	14501	N	PRO	D	155	55.706	53.469	92.229	1.00 54.47		N
	14502	CA	PRO			55.067	53.470	93.560	1.00 55.09		С
	14504	CB	PRO		155	53.979	52.480	93.367	1.00 56.62		С
	14507	ÇG	PRO		155	54.662	51.449	92.460	1.00 58.94		С
	14510	CD	PRO		155	55.738	52.112	91.677	1.00 57.37		С
	14513	C	PRO		155	55.902	52.909	94.714	1.00 56.44		С
	14514	Ö			155	56.987	52.293	94.496	1.00 57.94		0
	14515	N	VAL			55.356	53.104	95.921	1.00 55.95		N
	14517	CA	VAL			55.900	52.510	97.110	1.00 58.09		С
	14519	CB			156	56.074	53.534	98.199	1.00 57.30		С
	14521		VAL			56.640	52.887	99.512	1.00 60.92		C
	14525		VAL			57.072	54.513	97.769	1.00 57.85		C
	14529	C	VAL			54.907	51.505	97.595	1.00 60.29		С
	14530	Ō	VAL			53.748	51.612	97.316	1.00 61.45		0
	14531	N	THR	D	157	55.373	50.518	98.313	1.00 62.28		N
	14533	CA	THR			54.531	49.596	98.993	1.00 64.84		C
	14535	CB	THR			55.070	48.221	98.666	1.00 68.70		С
	14537	OG1				54.767	47.907	97.300	1.00 68.61		0
	14539	CG2				54.377	47.166	99.467	1.00 74.43		C
	14543	С			157	54.791	49.880	100.432	1.00 65.43		C
	14544	0			157	55.929	50.121	100.772	1.00 67.18		0
	14545	N	VAL	D	158	53.792	49.826	101.297	1.00 66.13		N
ATOM	14547	CA	VAL	D	158	54.027	49.793	102.753	1.00 67.84		C
ATOM	14549	CB			158	53.496	51.066	103.435	1.00 65.69		C
	14551		VAL		158	53.812	51.053	104.905	1.00 67.82		С
	14555	CG2	VAL	D	158	54.053	52.331	102.774	1.00 61.61		C
ATOM	14559	С			158	53.277	48.599	103.351	1.00 72.19		С
ATOM	14560	0	VAL	D	158	52.314	48.156	102.776	1.00 73.95		0
	14561	N	SER	D	159	53.681	48.090	104.507	1.00 75.68		N
MOTA	14563	ÇA	SER	D	159	52.984	46.954	105.155	1.00 80.05		C
MOTA	14565	CB	SER	D	159	53.231	45.659	104.387	1.00 83.26	•	C
ATOM	14568	OG	SER	D	159	54.603	45.300	104.525	1.00 84.89		0
MOTA	14570	С	SER	D	159	53.544	46.773	106.546	1.00 83.51		C
ATOM	14571	0	SER	D	159	54.718	47.089	106.775	1.00 83.52		0
MOTA	14572	N	TRP	D	160	52.768	46.211	107.471	1.00 87.04		И
ATOM	14574	CA	TRP	D	160	53.284	46.101	108.846	1.00 90.70		C
MOTA	14576	CB	TRP	D	160	52.378	46.873	109.763	1.00 89.83		C
MOTA	14579	CG	TRP	D	160	52.246	48.303	109.409	1.00 84.69		C
MOTA	14580	CD1	TRP	D	160	51.543	48.842	108.352	1.00 79.29		C
MOTA	14582	NE1	TRP	D	160	51.623		108.391	1.00 73.78		N
MOTA	14584	CE2	TRP	D	160	52.373		109.470	1.00 76.63		С
MOTA	14585	CD2	TRP	D	160	52.788		110.131	1.00 83.36		C
MOTA	14586	CE3	TRP	D	160	53.560	49.524	111.289	1.00 87.07		C
MOTA	14588	CZ3	TRP	D	160	53.910		111.732	1.00 86.68		C
MOTA	14590	CH2			160	53.494		1,11.041	1.00 80.65		C
	14592		TRP			52.723		109.916	1.00 75.76		C
	14594	С			160	53.529		109.400	1.00 97.32		C
	14595	0			160	52.681		109.261	1.00100.42		0
	14596	N			161	54.708		110.002	1.00100.50		N
	14598	CA			161	55.107		110.664	1.00107.59		C
	14600	CB			161	54.168		111.837	1.00111.38		C
	14603	CG			161	54.071		112.867	1.00109.86		C
	14604		ASN			53.451		113.914	1.00113.63		O
	14605		ASN			54.700		112.572	1.00104.12		N
	14608	C			161	55.201		109.686	1.00109.80		C O
	14609	0			161	54.581		109.890	1.00113.89		N
	14610	N			162	56.001		108.633	1.00107.26		C
	14612	CA			162	55.962		107.389	1.00108.05		C
	14614	CB			162	56.905		107.464	1.00115.28 1.00122.27		0
	14617	OG			162	56.533 54.515			1.00122.27		C
	14619	C			162	54.515		106.843			0
	14620	0			162	54.284		106.071 107.206	1.00109.12		И
	14621	N Ch			163	53.558		107.206	1.00103.43		C C
	14623	CA			163 163	52.218 51.214		100.659	1.00102.77		C
	14626	C			163	51.214 50.140		107.361	1.00107.98		0
	14627	O N			164	51.541		107.100	1.00109.21		N
	14628 14630	N CA			164	50.641		100.042	1.00111.31		C
DI OM	T-020	OA	* >*******	ט	T O 1	00.041	30.333				-

ATOM 14632	СВ	Δ.Τ.Δ	D 164	51.422	39.829 110.979	1.00121.90	С
ATOM 14636	C	ALA		49.498	41.278 110.236	1.00113.12	Ċ
ATOM 14637	0	ALA		48.523	40.774 110.836	1.00117.66	Ö
			D 165	49.610	42.594 109.985	1.00106.18	Ŋ
ATOM 14638	Ŋ	LEU		48.572	43.596 110.366	1.00103.35	C
ATOM 14640	CA						C
ATOM 14642	CB	LEU		49.213	44.841 111.017	1.00100.01	
ATOM 14645	CG	LEU		49.884	44.675 112.393	1.00104.07	C
ATOM 14647	CD1	LEU		49.895	46.010 113.140	1.00100.25	C
ATOM 14651	CD2	LEU		49.215	43.516 113.304	1.00113.44	C
ATOM 14655	С	LEU	D 165	47.666	44.060 109.206	1.00 99.38	C
ATOM 14656	0	LEU	D 165	48.126	44.281 108.107	1.00 95.88	0
ATOM 14657	N	THR	D 166	46.382	44.244 109.481	1.00100.31	N
ATOM 14659	CA	THR	D 166	45.386	44.436 108.428	1.00 98.64	C
ATOM 14661	CB	THR	D 166	44.681	43.068 108.100	1.00104.71	С
ATOM 14663	OG1	THR	D 166	45.324	42.495 106.961	1.00104.16	0
ATOM 14665	CG2	THR	D 166	43.167	43.212 107.657	1.00105.79	С
ATOM 14669	С	THR	D 166	44.388	45.506 108.810	1.00 96.21	C
ATOM 14670	Ō		D 166	44.421	46.562 108.235	1.00 91.40	0
ATOM 14671	N		D 167	43.492	45.242 109.755	1.00100.00	N
ATOM 14673	CA		D 167	42.552	46.277 110.121	1.00 98.66	С
ATOM 14675	CB		D 167	41.333	45.736 110.879	1.00103.89	Ċ
ATOM 14678	OG		D 167	41.735	45.120 112.053	1.00106.75	Ö
ATOM 14678 ATOM 14680	C		D 167	43.307	47.389 110.895	1.00 95.73	Ċ
ATOM 14680 ATOM 14681			D 167	44.117	47.131 111.821	1.00 96.71	ő
	0			43.027	48.623 110.464	1.00 91.77	Ŋ
ATOM 14682	N		D 168	43.655	49.807 110.982	1.00 89.03	Č
ATOM 14684	CA		D 168			1.00 84.96	Č
ATOM 14687	С		D 168	44.604			0
ATOM 14688	0		D 168	45.059	51.438 110.086	1.00 83.18	
ATOM 14689	N		D 169	44.892	49.580 108.871	1.00 84.50	N
ATOM 14691	CA		D 169	45.986	49.932 107.935	1.00 80.36	C
ATOM 14693	CB		D 169	46.696	48.697 107.290	1.00 82.08	C
ATOM 14695			D 169	47.829	49.109 106.355	1.00 76.99	C
ATOM 14699			D 169	47.248	47.793 108.385	1.00 87.51	C
ATOM 14703	C	VAL		45.440	50.853 106.859	1.00 76.27	C
ATOM 14704	0		D 169	44.763	50.448 105.886	1.00 75.78	0
ATOM 14705	N	HIS		45.770	52.104 107.099	1.00 72.66	N
ATOM 14707	CA	HIS		45.447	53.183 106.249	1.00 69.38	C
ATOM 14709	CB	HIS	D 170	44.786	54.234 107.116	1.00 70.06	C
ATOM 14712	CG	HIS		43.316	54.039 107.318	1.00 71.85	С
ATOM 14713		HIS		42.431	53.891 106.277	1.00 70.83	N
ATOM 14715		$_{ m HIS}$		41.200	53.816 106.759	1.00 75.91	С
ATOM 14717	NE2	HIS	D 170	41.258	53.904 108.075	1.00 76.31	N
ATOM 14719	CD2		D 170	42.571	54.040 108.449	1.00 74.79	С
ATOM 14721	С	HIS	D 170	46.730	53.740 105.599	1.00 65.87	C
ATOM 14722	0	\mathtt{HIS}	D 170	47.590	54.326 106.240	1.00 64.33	0
ATOM 14723	N	THR	D 171	46.813	53.616 104.287	1.00 64.92	N
ATOM 14725	CA	THR	D 171	48.045	53.890 103.569	1.00 61.85	C
ATOM 14727	CB	THR	D 171	48.525	52.618 102.809	1.00 63.26	C
ATOM 14729	OG1	THR	D 171	48.681	51.525 103.768	1.00 68.52	0
ATOM 14731	CG2	THR	D 171	49.922	52.775 102.220	1.00 60.74	C
ATOM 14735	С	THR	D 171	48.066	55.083 102.701	1.00 57.66	C
ATOM 14736	0	THR	D 171	49.097	55.421 102.275	1.00 59.99	0
ATOM 14737	N	PHE	D 172	47.052	55.841 102.493	1.00 56.24	N
ATOM 14739	CA	PHE	D 172	47.309		1.00 53.44	C
ATOM 14741	CB		D 172	47.980		1.00 52.85	C
ATOM 14744	CG		D 172	47.131		1.00 56.06	С
ATOM 14745			D 172	47.421		1.00 57.70	С
ATOM 14745 ATOM 14747			D 172	46.598		1.00 61.30	Ċ
ATOM 14747 ATOM 14749	CZ		D 172	45.466		1.00 61.98	Ċ
ATOM 14745 ATOM 14751			D 172	45.158		1.00 61.46	Č
ATOM 14751 ATOM 14753			D 172	46.002		1.00 58.64	č
	CDZ		D 172	48.040		1.00 50.18	c
ATOM 14755 ATOM 14756	0		D 172	49.188	57.152 100.499	1.00 48.95	Ö
ATOM 14756 ATOM 14757			D 173	47.323		1.00 51.03	N
	N C2		D 173	47.966		1.00 50.61	C
ATOM 14758	CA		D 173	46.828		1.00 50.61	C
ATOM 14760	CB			45.802		1.00 53.99	C
ATOM 14763	CG		D 173	45.802 45.876		1.00 53.99	C
ATOM 14766	CD	LKO	ט דוס	40.076	JU.140 JJ.022	1.00 02.00	Č

ATOM 14769	C	PRO	D	173	49.105	59.258	98.568	1 00	49.69	C
	C									
ATOM 14770	0	PRO		173	49.007	60.262	99.263		50.24	0
ATOM 14771	N	ALA			50.192	58.982	97.865		49.12	N
ATOM 14773	CA	ALA			51.333	59.885	97.868		48.07	C
ATOM 14775	CB	ALA			52.374	59.344	96.969		47.30	С
ATOM 14779	С	ALA	D	174	50.988	61.267	97.411	1.00	48.33	C
ATOM 14780	0	ALA	D	174	49.996	61.501	96.760	1.00	48.62	0
ATOM 14781	N	VAL	D	175	51.863	62.181	97.732	1.00	48.93	N
ATOM 14783	CA	VAL	D	175	51.693	63.544	97.311	1.00	50.08	С
ATOM 14785	CB	VAL		175	51.278	64.396	98.464		52.47	Ċ
ATOM 14787		VAL			51.091	65.789	98.004		56.48	Ċ
ATOM 14787		VAL			49.992	63.925	99.000		53.12	C
						64.056				
ATOM 14795	C	VAL			53.009		96.790		49.12	C
ATOM 14796	0	VAL			54.031	63.730	97.308		48.44	0
ATOM 14797	N	LEU		176	52.965	64.862	95.747		49.70	N
ATOM 14799	CA	LEU		176	54.162	65.349	95.125		49.52	С
ATOM 14801	CB	$_{ m LEU}$	D	176	53.854	65.602	93.685	1.00	50.20	C
ATOM 14804	CG	$_{ m LEU}$	D	176	54.982	66.015	92.758	1.00	51.28	С
ATOM 14806	CD1	LEU	D	176	56.160	65.079	92.906	1.00	51.18	С
ATOM 14810	CD2	LEU	D	176	54.408	65.949	91.360	1.00	51.54	С
ATOM 14814	С	LEU	D	176	54.528	66.631	95.771	1.00	51.36	С
ATOM 14815	Ō	LEU		176	53.750	67.559	95.800		53.28	0
ATOM 14816	N	GLN			55.703	66.664	96.348		52.30	N
ATOM 14818	CA	GLN		177	56.173	67.852	97.072		55.83	C
		GLN			57.242		98.109		56.07	C
ATOM 14820	CB					67.468				
ATOM 14823	CG	GLN			56.885	66.367	99.070		53.77	C
ATOM 14826	CD	GLN		177	58.093	65.861	99.821		55.31	C
ATOM 14827	OE1	GLN			59.134	66.373	99.640		67.15	0
ATOM 14828	NE2	GLN	D	177	57.940		100.701	1.00	56.54	N
ATOM 14831	С	GLN	D	177	56.753	68.909	96.092	1.00	57.83	С
ATOM 14832	0	GLN	D	177	56.895	68.652	94.905	1.00	57.07	0
ATOM 14833	N	SER	D	178	57.105	70.086	96.594	1.00	61.86	N
ATOM 14835	CA	SER	D	178	57.698	71.128	95.747	1.00	64.24	С
ATOM 14837	СВ	SER		178	57.821	72.425	96.515		68.85	С
ATOM 14840	OG	SER			56.592	73.127	96.433		70.78	0
ATOM 14842	C	SER		178	59.054	70.760	95.178		63.76	Č
ATOM 14843	0	SER			59.474	71.301	94.193		64.54	Ö
ATOM 14844		SER		179	59.735	69.827	95.820		63.67	N
	N									
ATOM 14846	CA	SER			61.005	69.276	95.324		63.08	C
ATOM 14848	CB	SER		179	61.691	68.545	96.476		63.84	C
ATOM 14851	OG	SER			60.849	67.484	97.003		62.76	0
ATOM 14853	С	SER			60.897	68.260	94.149		60.11	C
ATOM 14854	0	SER	D	179	61.972	67.795	93.639	1.00	60.04	0
ATOM 14855	N	GLY	D	180	59.651	67.856	93.788	1.00	56.93	N
ATOM 14857	CA	GLY	D	180	59.442	66.838	92.771	1.00	53.61	C
ATOM 14860	C	GLY	D	180	59.604	65.423	93.306	1.00	51.38	С
ATOM 14861	0	GLY	D	180	59.592	64.412	92.557	1.00	49.29	0
ATOM 14862	N	LEU			59.728	65.348	94.623		51.34	N
ATOM 14864	CA	LEU			59.769	64.068	95.288		50.39	С
ATOM 14866	CB	LEU			60.814	64.149	96.347		52.46	C
ATOM 14869	CG	LEU			62.218	64.303	95.845		53.18	C
ATOM 14871		LEU			63.179	64.532	97.017		53.74	C
		LEU			62.516		95.073		51.26	C
ATOM 14875						63.006				C
ATOM 14879	C	LEU			58.437	63.756	95.964		49.42	
ATOM 14880	0	LEU			57.823	64.632	96.590		50.84	0
ATOM 14881	N	TYR			57.995	62.517	95.866		47.37	N
ATOM 14883	CA	TYR			56.805	62.099	96.625		47.21	С
ATOM 14885	CB	TYR			56.283	60.780	96.092		46.17	С
ATOM 14888	CG	TYR	D	182	55.767	60.930	94.708	1.00	45.87	С
ATOM 14889	CD1	TYR	D	182	56.557	60.615	93.633	1.00	46.82	C
ATOM 14891		TYR			56.098	60.809	92.348	1.00	48.35	C
ATOM 14893	CZ	TYR			54.813	61.268	92.138		47.09	C
ATOM 14894	OH	TYR			54.417	61.435	90.868		45.62	Ö
ATOM 14896		TYR			54.012	61.607	93.185		45.99	Ċ
ATOM 14898		TYR			54.494	61.461	94.465		46.47	C
										C
ATOM 14900	С	TYR			57.045	61.914	98.120		48.05	
ATOM 14901	0	TYR			58.117	61.576	98.545		48.45	O
ATOM 14902	N	SER	ט	тяз	56.034	62.171	98.915	T.00	48.87	N

7. [] ()	r 14004	CA	SER	Ъ	102		55.925	61 467	100.149	1.00 51.4	1	С
	1 14904								101.324	1.00 53.7		C
	1 14906	CB	SER				56.474					
	1 14909	OG	SER				55.445		101.902	1.00 57.0		0
ATOI	1 14911	С	SER	D	183		54.518		100.430	1.00 51.3		C
ATO	1 14912	0	SER	D	183		53.558	61.281	99.726	1.00 50.4		0
ATO	1 14913	N	LEU	D	184		54.452	60.236	101.521	1.00 53.3	2	Ñ
ATO	1 14915	CA	LEU	D	184		53.409	59.260	101.805	1.00 54.2	5	C
	1 14917	CB	LEU				53.948	57.905	101.387	1.00 54.63	3	С
	1 14920	CG	LEU				53.018		101.250	1.00 54.8		С
			LEU				52.219		100.076	1.00 53.7		C
	1 14922		LEU						101.028	1.00 57.8		C
	1 14926						53.879					
	1 14930	C	LEU				53.275		103.308	1.00 56.2		C
	1 14931	0	LEU			•	54.094		104.021	1.00 57.2		0
ATOP.	1 14932	N	SER	D	185		52.272		103.800	1.00 57.3		N
ATO	1 14934	CA	SER	D	185		52.379		105.174	1.00 59.7		С
ATOR	1 14936	CB	SER	D	185		52.049	59.067	106.224	1.00 61.8	7	C
ATO	1 14939	OG	SER	D	185		50.921	59.813	105.836	1.00 63.9	2	0
ATO	1 14941	С	SER	D	185		51.474	56.865	105.319	1.00 58.5	4	С
	1 14942	0	SER	D	185		50.405	56.906	104.803	1.00 55.5	6	0
	1 14943	N	SER				51.955		105.977	1.00 60.1		N
	1 14945	CA	SER				51.078		106.428	1.00 63.5		С
			SER				51.565		105.983	1.00 64.3		Ċ
	1 14947	CB										Ö
	1 14950	OG	SER				51.306		107.024	1.00 69.7		
	1 14952	С			186		50.824		107.946	1.00 66.7		C
	4 14953	0	SER				51.600		108.716	1.00 68.1		0
ATO	1 14954	N	VAL	D	187		49.700		108.364	1.00 69.0		N
ATO	1 14956	CA	VAL	D	187		49.165	54.560	109.697	1.00 72.0		С
ATO	1 14958	CB	VAL	D	187		48.374	55.912	109.640	1.00 70.9	6	С
ATO	1 14960	CG1	VAL	D	187		47.059	55.856	110.271	1.00 72.9	7	С
ATOI	1 14964	CG2	VAL	D	187		49.184	57.018	110.284	1.00 72.1	5	С
	1 14968	C	VAL				48.375	53.380	110.180	1.00 74.5	7	C
	1 14969	Ö	VAL				47.765		109.388	1.00 73.6		0
	1 14970		VAL				48.480		111.467	1.00 78.7		И
		N					47.669		112.060	1.00 83.0		C
	1 14972	CA	VAL									
	1 14974	CB	VAL				48.424		112.506	1.00 86.2		С
	4 14976		VAL				47.620		112.107	1.00 88.8		C
ATOI	1 14980	CG2	VAL				49.766		111.881	1.00 86.5		C
ATO	1 14984	C	VAL	D	188		46.954	52.550	113.272	1.00 86.0		С
ATO	1 14985	0	VAL	D	188		47.492	53.373	114.027	1.00 87.5	0	0
ATO	1 14986	N	THR	D	189		45.717	52.090	113.409	1.00 87.4	2	N
ATO	1 14988	CA	THR	D	189		45.015	52.183	114.633	1.00 90.9	7	С
ATO	4 14990	CB	THR	D	189		43.536	52.320	114.347	1.00 91.2	2	C
	4 14992		THR				43.307		113.261	1.00 85.4	0	0
	4 14994		THR				42.842		115.480	1.00 95.2		C
	4 14998	C			189		45.331		115.304	1.00 95.7		C
		0					45.260		114.672	1.00 96.1		0
	4 14999				189							N
	4 15000	N			190		45.746		116.561	1.00 99.6		
	4 15002	CA			190		45.807		117.344	1.00105.4		C
	M 15004	CB			190		47.212		117.308	1.00106.5		C
ATO	4 15006	CG1	VAL	D	190		47.112		117.879	1.00113.4		С
ATO	15010	CG2	VAL	D	190		47.766	48.880	115.927	1.00101.2	0	С
ATO	15014	C	VAL	D	190		45.413	49.955	118.791	1.00110.3	2	С
ATO	4 15015	0	VAL	D	190		45.707	51.074	119.275	1.00109.7	6	0
	4 15016	N			191		44.744		119.460	1.00114.9	7	N
	M 15017	CA			191		44.542		120.915	1.00120.9		C
	M 15019	CB			191		44.043		121.300	1.00125.9		C
							44.151		120.045	1.00123.1		C
	M 15022	CG			191							C
	M 15025	CD			191		44.102		118.900	1.00115.9		
	M 15028	C			191		45.853		121.632	1.00122.9		C
	M 15029	0			191		46.839		121.471	1.00123.9		0
ATO	M 15030	N	SER	D	192		45.865		122.396	1.00124.3		N
ATO	M 15032	CA	SER	D	192		47.084		123.089	1.00126.9	5	С
ATO	M 15034	CB	SER	D	192		46.777	52.111	124.075	1.00129.9	1	C
ATO	M 15037	OG	SER	D	192		45.532	51.972	124.740	1.00133.2	9	0
	м 15039	С			192		47.947	49.817	123.741	1.00132.4	3	C
	M 15040	Ö			192		49.151		123.488	1.00131.8		0
	M 15041	N			193		47.354		124.509	1.00137.7		N
	M 15041	CA			193		48.126		125.053	1.00143.4		C
21.0		OA.	\u00e4	ע	T 9 0		-10.120	1,.,50		#.00#40.4	-	-

ATOM 15045	CB SE	R D	193	47.327	46.438	125.055	1.00146.12	С
ATOM 15048		R D		46.031		125.549	1.00145.50	0
ATOM 15050		R D		49.469		124.314	1.00141.77	C
ATOM 15051		R D		50.505		124.802	1.00144.72	0
ATOM 15052	N SE	R D	194	49.431		123.120	1.00137.58	N
ATOM 15054	CA SE	R D	194	50.576	46.172	122.505	1.00137.39	C
ATOM 15056	CB SE	R D	194	51.823	47.067	122.336	1.00134.79	C
ATOM 15059	OG SE	R D	194	51.599	48.394	122.757	1.00130.77	0
ATOM 15061		R D		50.904		123.248	1.00146.68	C
ATOM 15062		R D		52.066		123.660	1.00150.94	Ō
ATOM 15063		U D		49.851		123.443	1.00150.16	N
ATOM 15065		U D		49.925		123.927	1.00158.06	С
ATOM 15067	CB LE	U D	195	48.727	42.204	124.827	1.00162.41	C
ATOM 15073	C LE	U D	195	49.952	41.592	122.701	1.00156.29	С
ATOM 15074	O LE	U D	195	49.549	42.026	121.607	1.00149.95	0
ATOM 15075		Y D		50.425	40.340	122.842	1.00162.68	N
ATOM 15077		Y D		50.727		121.675	1.00161.42	C
		Y D		51.318		120.455	1.00153.51	C
ATOM 15080								
ATOM 15081		Y D		50.581		119.512	1.00147.54	0
ATOM 15082		R D		52.642		120.464	1.00153.86	N
ATOM 15084	CA TH	R D	197	53.368	41.350	119.480	1.00146.39	C
ATOM 15086	CB TH	R D	197	53.254	40.820	117.993	1.00142.49	С
ATOM 15088	OG1 TH	IR D	197	54.045	39.617	117.882	1.00149.06	0
ATOM 15090	CG2 TH			53.887	41.806	116.926	1.00133.52	С
ATOM 15094		IR D		53.138		119.643	1.00140.17	C
ATOM 15094 ATOM 15095		IR D		52.525		118.818	1.00132.05	0
ATOM 15096		N D		53.709		120.759	1.00144.11	N
ATOM 15098		N D		53.825		121.116	1.00140.43	C
ATOM 15100	CB GL	N D	198	54.450	44.898	122.532	1.00147.96	С
ATOM 15107	C GL	N D	198	54.697	45.496	120.114	1.00134.16	C
ATOM 15108	O GL	N D	198	54.789	46.710	120.188	1.00130.78	0
ATOM 15109		R D		55.332		119.190	1.00133.07	N
ATOM 15111		IR D		56.296		118.244	1.00128.45	C
						117.891		C
ATOM 15113		IR D		57.444			1.00132.44	
ATOM 15115	OG1 TH			57.295		118.631	1.00139.60	0
ATOM 15117	CG2 TH	IR D	199	58.814		118.344	1.00135.37	С
ATOM 15121	C TH	IR D	199	55.626	45.857	116.943	1.00120.09	C
ATOM 15122	O TH	IR D	199	55.024	45.084	116.183	1.00118.92	0
ATOM 15123	N TY	R D	200	55.751	47.155	116.680	1.00115.03	N
ATOM 15125		R D		55.213		115.454	1.00107.62	С
ATOM 15127		R D		54.281		115.795	1.00104.46	Ċ
ATOM 15127 ATOM 15130							1.00104.40	C
		R D		53.147		116.711		
ATOM 15131	CD1 TY			52.975		117.970	1.00109.12	C
ATOM 15133	CE1 TY	R D	200	51.963	48.664	118.811	1.00111.35	C
ATOM 15135	CZ TY	R D	200	51.115	47.661	118.401	1.00111.91	C
ATOM 15136	OH TY	R D	200	50.096	47.221	119.207	1.00115.71	0
ATOM 15138	CE2 TY	R D	200	51.271	47.068	117.166	1.00109.67	C
ATOM 15140	CD2 TY			52.277		116.333	1.00106.06	С
ATOM 15142		R D		56.346		114.499	1.00104.92	Ċ
		R D					1.00104.32	0
ATOM 15143				57.050		114.738		
ATOM 15144		E D		56.521		113.424	1.00103.81	N
ATOM 15146		E D		57.545		112.429	1.00102.21	С
ATOM 15148	CB IL	ED	201	58.684	46.590	112.496	1.00107.75	С
ATOM 15150	CG1 II	E D	201	59.393	46.656	113.856	1.00113.72	C
ATOM 15153	CD1 II	E D	201	60.523	45.656	114.048	1.00119.86	С
ATOM 15157	CG2 II			59.717		111.336	1.00105.63	С
ATOM 15161		E D		56.997		110.980	1.00 96.83	C
ATOM 15162		E D		56.436		110.436	1.00 97.98	0
ATOM 15163		S D		57.184		110.330	1.00 92.25	N
ATOM 15165		S D		56.695		108.944	1.00 87.63	С
ATOM 15167	CB CY	S D	202	56.006	50.398	108.708	1.00 83.22	C
ATOM 15170	SG CY	S D	202	57.133	51.729	108.422	1.00 81.91	S
ATOM 15171		S D		57.728		107.836	1.00 86.17	С
ATOM 15172		S D		58.868		107.923	1.00 86.56	Ö
		N D				106.780	1.00 84.31	И
ATOM 15173				57.254				
ATOM 15175		N D		58.079		105.732	1.00 84.05	C
ATOM 15177		N D		57.692		105.447	1.00 87.34	C
ATOM 15180	CG AS	N D	203	57.400	45.402	106.715	1.00 93.02	С

ATOM	15181	OD1	ASN	D	203	58.163	45.443	107.705	1.00	94.19	0
ATOM	15182	ND2	ASN	D	203	56.273	44.708	106.709	1.00	95.69	И
ATOM	15185	C	ASN	D	203	57.828	48.450	104.543		78.21	С
	15186	0	ASN			56.798		103.918		77.07	0
	15187	N	VAL			58.774		104.262		75.80	N
	15189	CA	VAL			58.728		103.109		71.12	C C
	15191	CB	VAL VAL			59.273 58.892		103.467 102.404		69.36 64.60	C
	15193 15197		VAL			58.753		104.837		69.88	C
	15201	C	VAL			59.544		101.980		71.71	c
	15202	0	VAL			60.760		102.076		73.45	0
	15203	N	ASN			58.867	49.133	100.912	1.00	70.66	N
ATOM	15205	CA	ASN	D	205	59.554	48.715	99.697	1.00	71.49	C
ATOM	15207	CB	ASN	D	205	59.047	47.351	99.229		74.94	С
	15210	CG	ASN			59.923	46.761	98.143		78.41	С
	15211		ASN			60.868	46.022	98.437		84.36	0
	15212		ASN			59.661	47.141	96.874		77.11	N C
	15215 15216	C 0	ASN ASN			59.436 58.335	49.745	98.564 98.188		66.99 65.08	0
	15217	N			205	60.575	50.160	98.031		66.16	И
	15217	CA	HIS			60.573	51.013	96.867		63.53	C
	15221	CB	HIS			61.317	52.331	97.165		62.70	С
	15224	CG	HIS		206	61.168	53.375	96.096	1.00	59.74	С
ATOM	15225	ND1	HIS	D	206	62.041	53.481	95.038	1.00	60.76	И
MOTA	15227	CE1	HIS	D	206	61.660	54.482	94.258		60.76	C
	15229		HIS			60.570	55.028	94.772		56.00	N
	15231		HIS			60.261	54.371	95.937		57.75	C
	15233	C			206	61.213	50.257	95.718		65.17 66.55	C O
	15234 15235	N O	LYS		206	62.419 60.399	50.373 49.504	95.513 94.963		65.74	N
	15237	N CA			207	60.333	48.605	93.893		67.90	C
	15239	CB			207	59.738	47.730	93.323		69.51	Ċ
	15246	C			207	61.623	49.304	92.746		65.87	C
	15247	0	LYS	D	207	62.591	48.740	92.218	1.00	69.15	0
MOTA	15248	N	PRO	D	208	61.243	50.518	92.351	1.00	61.80	N
	15249	CA			208	61.943	51.167	91.206		60.92	C
	15251	CB			208	61.030	52.336	90.824		56.74	C
	15254	CG			208	60.162	52.553	91.983		55.16	C C
	15257 15260	CD C			208 208	60.202 63.412	51.389 51.630	92.929 91.492		58.46 61.31	C
	15261	0			208	64.183	51.824	90.547		61.70	0
	15262	N			209	63.764	51.760	92.771		61.75	N
	15264	CA			209	65.107	52.100	93.230		63.81	С
	15266	CB	SER	D	209	65.067	53.338	94.118	1.00	61.67	С
ATOM	15269	OG	SER	D	209	64.729	53.003	95.435	1.00	61.97	0
MOTA	15271	С	SER	D	209	65.706	51.015	94.078		68.74	С
	15272	0			209	66.705	51.256	94.740		71.24	0
	15273	N			210	65.085	49.836	94.113		70.96	N
	15275 15277	CA			210	65.640	48.698 48.338	94.851 94.275		75.73 79.41	C C
	15277	CB CG			210 210	67.009 67.493	47.009	94.735		85.45	C
	15281		ASN			66.693	46.147	95.042		86.85	Ö
	15282		ASN			68.826	46.840	94.825		91.76	N
	15285	C			210	65.746	48.906	96.367	1.00	76.54	C
ATOM	15286	0	ASN	D	210	66.441	48.163	97.027	1.00	81.20	0
ATOM	15287	N			211	65.043	49.891	96.915		73.00	N
	15289	CA			211	65.020	50.089	98.360		75.11	C
	15291	CB			211	64.668	51.546	98.732		71.89	C
	15293		THR			64.896	52.438	97.628		70.10	0 C
	15295		THR		211	65.666	52.070 49.148	99.782 99.040		76.24 76.40	C
	15299 15300	С 0			211	64.044 62.956	49.148	98.516		74.76	0
	15300	И			212	64.432		100.193		80.57	N
	15301	CA			212	63.545		100.946		82.72	C
	15305	CB			212	63.730	46.229	100.569		87.28	C
	15312	С			212	63.809	47.921	102.405		85.46	C
	15313	0	LYS	D	212	64.258	47.015	103.062		91.69	0
MOTA	15314	N	VAL	D	213	63.489	49.105	102.900	1.00	82.31	N

ΣπОм	15316	CA	VAL	n	213	63.725	49 519	104.291	1.00 85.17	С
								104.291		
	15318	CB	VAL			63.756			1.00 82.29	C
	15320		VAL			63.512		105.713	1.00 84.73	C
	15324		VAL			65.083		103.696	1.00 84.19	C
	15328	С	VAL			62.711		105.372	1.00 86.25	С
	15329	0			213	61.532		105.129	1.00 82.68	0
ATOM	15330	N	ASP			63.192		106.586	1.00 91.59	N
ATOM	15332	CA	ASP	D	214	62.311	48.532	107.749	1.00 92.98	С
ATOM	15334	CB	ASP	D	214	62.506	47.092	108.271	1.00 98.93	C
MOTA	15337	CG	ASP	D	214	62.194	46.035	107.204	1.00 97.80	C
ATOM	15338	OD1	ASP	D	214	61.385	46.349	106.310	1.00 92.43	0
ATOM	15339	OD2	ASP	D	214	62.686	44.884	107.157	1.00100.35	0
MOTA	15340	C	ASP	D	214	62.580	49.592	108.846	1.00 94.11	C
MOTA	15341	0	ASP	D	214	63.738	50.011	109.018	1.00 97.04	0
ATOM	15342	N	LYS	D	215	61.519	50.079	109.507	1.00 91.96	N
ATOM	15344	CA	LYS	D	215	61.627	50.915	110.722	1.00 94.21	С
ATOM	15346	CB	LYS	D	215	61.440	52.411	110.394	1.00 88.82	C
ATOM	15353	C	LYS	D	215	60.643	50.460	111.849	1.00 96.87	C
ATOM	15354	0	LYS	D	215	59.545	50.002	111.586	1.00 94.60	0
ATOM	15355	N	ARG	D	216	61.060	50.595	113.105	1.00102.63	N
ATOM	15357	CA	ARG	D	216	60.210	50.347	114.279	1.00105.91	С
	15359	CB	ARG			61.002		115.347	1.00114.01	С
	15368	С	ARG			59.655		114.900	1.00104.92	C
	15369	Ō	ARG			60.344		114.955	1.00104.73	Ō
	15370	N	VAL			58.416		115.392	1.00104.77	N
	15372	CA	VAL			57.769		116.007	1.00104.59	Ċ
	15374	CB	VAL			56.461		115.224	1.00 98.42	Č
	15376		VAL			55.939		115.703	1.00 97.76	c
	15380		VAL			56.697		113.726	1.00 92.68	C
	15384	C	VAL			57.468		117.502	1.00111.16	Č
	15385	0	VAL			56.318		117.890	1.00111.38	Ö
	15386	N	GLU			58.506		118.337	1.00117.44	N
	15388	CA	GLU		218	58.321		119.788	1.00127.44	C
	15390	CB	GLU			59.670		120.523	1.00124.37	C
			GLU			60.454			1.00132.09	C
	15393	CG						120.158 119.658	1.00134.04	C
	15396	CD	GLU			61.880				
	15397	OE1 OE2	GLU			62.817		120.429	1.00140.64	0
	15398		GLU			62.079		118.499	1.00128.11	0
	15399	C	GLU			57.741		120.171	1.00123.49	C
	15400	O N	GLU PRO			57.926		119.434	1.00119.12	
	15401 15402	N				57.050		121.306	1.00128.14	N
		CA	PRO			56.704		121.852	1.00129.40	C
	15404	CB	PRO			55.714		122.995 123.371	1.00133.43	C
	15407	CG	PRO			55.987			1.00137.50	C
	15410	CD	PRO			56.555		122.145	1.00132.81	C
	15413	C	PRO			57.965		122.345	1.00134.98	C
	15414	0	PRO			59.093		121.941	1.00136.16	0
	15415	N	LYS			57.773		123.171	1.00138.92	N
	15417	CA	LYS			58.896		123.769	1.00144.98	C
	15419	СВ	LYS			59.535		122.740	1.00140.79	C
	15426	С	LYS			58.390		125.010	1.00151.08	C
	15427	0	LYS			57.270		124.935	1.00147.70	0
	15428		LYS			59.055		126.069	1.00159.07	0
	15429	C1	NAG		321	29.462	-7.124	22.592	1.00106.85	C
	15432	C2	NAG			28.616	-8.080	23.433	1.00108.34	С
	15434	N2	NAG			27.778	-7.288	24.383	1.00103.56	И
	15436	C7	NAG		321	26.642	-6.621	24.066	1.00100.08	С
	15437	07	NAG			25.925	-6.934	23.152	1.00101.12	0
	15438	C8	NAG		321	26.201	-5.421	24.839	1.00 96.46	С
	15442	C3	NAG			29.493	-9.202	24.102	1.00112.92	C
	15444	03	NAG			28.990		23.960	1.00118.55	0
	15446	C4	NAG			31.051	-9.069	23.931	1.00113.06	С
	15448	04	NAG			31.842	-9.641	24.956	1.00113.90	0
	15450	C5	NAG		321	31.401	-7.591	23.904	1.00108.70	С
ATOM	15452	С6	NAG			32.887	-7.238	24.154	1.00106.46	С
	15455	06	NAG			33.769	-8.115	23.495	1.00106.75	0
ATOM	15457	05	NAG			30.883	-7.285	22.627	1.00108.92	0
MOTA	15458	C1	NAG	E	322	29.267	-9.662	26.756	1.00110.31	С

ATOM 15461	C2	NAG E 322	28.521 -10.967	26.426	1.00114.38	С
ATOM 15463	N2	NAG E 322	28.052 -10.913	25.020	1.00116.92	N
ATOM 15465	C7	NAG E 322	28.385 -11.780	24.057	1.00119.42	C
ATOM 15466	07	NAG E 322	29.320 -11.475	23.340	1.00121.28	0
ATOM 15467	C8	NAG E 322	27.607 -13.054	23.839	1.00120.01	C
ATOM 15477	C3	NAG E 322	27.408 -11.226	27.470	1.00113.49	č
ATOM 15471 ATOM 15473	03	NAG E 322	26.898 -12.548	27.431	1.00115.37	Ö
ATOM 15475	C4	NAG E 322	27.936 -10.952	28.884	1.00112.48	C
		NAG E 322	26.846 -11.144	29.763	1.00112.40	Ö
ATOM 15477	04	NAG E 322	28.645 -9.568	28.956	1.00109.09	c
ATOM 15479	C5		29.263 -9.135	30.280	1.00107.46	C
ATOM 15481	C6	NAG E 322	28.277 -8.551	31.092	1.00107.40	Ö
ATOM 15484	06	NAG E 322 NAG E 322		28.071	1.00109.51	Ö
ATOM 15486	05		29.744 -9.611	31.168	1.00109.31	c
ATOM 15487	C1	MAN E 323	27.558 -13.638	32.294	1.00113.90	C
ATOM 15490	C2	MAN E 323	26.564 -13.183	32.294	1.00117.77	0
ATOM 15492	02	MAN E 323	26.868 -11.917		1.00117.73	C
ATOM 15494	C3	MAN E 323	25.081 -13.205	31.860		Ö
ATOM 15496	03	MAN E 323	24.400 -11.977	32.023	1.00112.67	C
ATOM 15498	C4	MAN E 323	24.976 -13.765	30.434	1.00119.97	0
ATOM 15500	04	MAN E 323	23.637 -13.872	30.008	1.00121.73	C
ATOM 15502	C5	MAN E 323	25.750 -15.104	30.461	1.00122.58 1.00125.63	C
ATOM 15504	C6	MAN E 323	25.209 -16.307	29.627		
ATOM 15507	06	MAN E 323	24.816 -16.087	28.285	1.00125.42	0
ATOM 15509	05	MAN E 323	27.124 -14.727	30.312	1.00121.55	0
ATOM 15510	C1	MAN E 324	25.902 -11.845	35.755	1.00115.15	C
ATOM 15513	C2	MAN E 324	27.196 -11.304	35.140	1.00112.82	C
ATOM 15515	02	MAN E 324	26.996 -11.188	33.736	1.00113.36	0
ATOM 15517	C3	MAN E 324	27.691 -9.982	35.758	1.00109.46	C
ATOM 15519	03	MAN E 324	28.466 -9.354	34.763	1.00107.10	0
ATOM 15521	C4	MAN E 324	26.596 -8.988	36.246	1.00108.78	C
ATOM 15523	04	MAN E 324	27.023 -8.082	37.287	1.00103.92	0
ATOM 15525	C5	MAN E 324	25.275 -9.715	36.643	1.00112.59	C
ATOM 15527	C6	MAN E 324	24.102 -8.722	36.842	1.00110.06	C
ATOM 15530	06	MAN E 324	23.750 -8.085	35.622	1.00108.11	0
ATOM 15532	05	MAN E 324	24.926 -10.812	35.755	1.00114.60	0
ATOM 15533	C1	NAG E 881	51.524 67.218	74.770	1.00 82.89	C
ATOM 15536	C2	NAG E 881	50.338 68.025	74.160	1.00 83.13	C
ATOM 15538	N2	NAG E 881	49.032 67.353	73.995	1.00 82.71	И
ATOM 15540	C7	NAG E 881	47.991 67.386	74.866	1.00 82.73	C
ATOM 15541	07	NAG E 881	47.380 66.346	75.237	1.00 78.34	0
ATOM 15542	C8	NAG E 881	47.603 68.758	75.385	1.00 84.08	C
ATOM 15546	C3	NAG E 881	50.819 68.571	72.803	1.00 83.44	C
ATOM 15548	03	NAG E 881	49.657 69.047	72.125	1.00 81.68	0
ATOM 15550	C4	NAG E 881	52.075 69.513	72.964	1.00 84.89	C
ATOM 15552	04	NAG E 881	52.660 69.876	71.736	1.00 84.61	0
ATOM, 15554	C5	NAG E 881	53.218 68.848	73.783	1.00 83.76	C
ATOM 15556	C6	NAG E 881		74.031		C
ATOM 15559	06	NAG E 881	54.704 71.055	74.263	1.00 83.52	0
ATOM 15561	05	NAG E 881	52.665 68.147	74.940	1.00 86.69	0
ATOM 15562	C1	NAG E3281	49.375 31.629	48.905	1.00 52.84	C
ATOM 15565	C2	NAG E3281	49.482 31.018	50.297	1.00 51.74	C
ATOM 15567	N2	NAG E3281	50.091 31.941	51.249	1.00 51.34	N
ATOM 15569	C7	NAG E3281	49.384 32.526	52.211	1.00 50.13	C
ATOM 15570	07	NAG E3281	48.435 32.032	52.749	1.00 53.22	0
ATOM 15571	C8	NAG E3281	49.756 33.856	52.704	1.00 50.66	C
ATOM 15575	C3	NAG E3281	50.226 29.684	50.255	1.00 52.62	C
ATOM 15577	03	NAG E3281	50.116 29.054	51.488	1.00 52.27	0
ATOM 15579	C4	NAG E3281	49.732 28.723	49.174	1.00 54.50	C
ATOM 15581	04	NAG E3281	50.703 27.716	48.931	1.00 54.62	0
ATOM 15582	C5	NAG E3281	49.375 29.441	47.856	1.00 54.70	C
ATOM 15584	C6	NAG E3281	48.447 28.552	47.010	1.00 55.71	С
ATOM 15587	06	NAG E3281	47.278 28.100	47.717	1.00 53.23	0
ATOM 15589	05	NAG E3281	48.735 30.686	48.078	1.00 51.91	0
ATOM 15590	C1	NAG E3282	50.357 26.487	49.573	1.00 54.61	C
ATOM 15592	C2	NAG E3282	51.035 25.314	48.888	1.00 56.44	C
ATOM 15594	N2	NAG E3282	50.443 25.157	47.600	1.00 56.42	N
ATOM 15596	C7	NAG E3282	50.897 25.560	46.412	1.00 57.36	C
ATOM 15597	07	NAG E3282	51.890 26.176	46.141	1.00 58.44	0

7.00M 1.550.0	CIO.	MAC ESSOS	50.036	25.176	45.269	1.00 58.52	С
ATOM 15598	C8	NAG E3282					C
ATOM 15602	C3	NAG E3282	50.703	24.044	49.639	1.00 56.65	
ATOM 15604	03	NAG E3282	51.439	22.899	49.223	1.00 60.43	0
ATOM 15606	C4	NAG E3282	51.144	24.227	51.060	1.00 59.24	C
ATOM 15608	04	NAG E3282	50.928	22.982	51.702	1.00 59.30	0
ATOM 15609	C5	NAG E3282	50.469	25.441	51.718	1.00 57.25	C
ATOM 15611	C6	NAG E3282	51.087	25.744	53.078	1.00 55.87	C
ATOM 15614	06	NAG E3282	52.436	26.070	52.833	1.00 56.35	Ō
ATOM 15616	05	NAG E3282	50.700	26.585	50.922	1.00 56.55	0
ATOM 15617	C1	MAN E3283	52.049	22.569	52.475	1.00 60.80	С
ATOM 15619	C2	MAN E3283	51.547	22.103	53.804	1.00 59.65	C
						1.00 58.83	Ö
ATOM 15621	02	MAN E3283	50.445	21.312	53.451		C
ATOM 15623	C3	MAN E3283	52.518	21.233	54.574	1.00 61.41	
ATOM 15625	03	MAN E3283	51.787	20.219	55.195	1.00 63.34	0
ATOM 15626	C4	MAN E3283	53.562	20.456	53.794	1.00 64.14	C
ATOM 15628	04	MAN E3283	54.592	20.336	54.757	1.00 65.32	0
ATOM 15630	C5	MAN E3283	53.906	21.186	52.484	1.00 64.35	С
ATOM 15632	C6	MAN E3283	54.827	20.559	51.427	1.00 66.91	C
ATOM 15635	06	MAN E3283	54.336	19.397	50.755	1.00 68.16	0
ATOM 15636	05	MAN E3283	52.651	21.452	51.873	1.00 66.18	0
ATOM 15637	C1	MAN E3284	55.217	18.249	50.742	1.00 72.30	С
ATOM 15639	C2	MAN E3284	55.266	17.684	52.167	1.00 74.79	С
ATOM 15641	02	MAN E3284	53.926	17.897	52.622	1.00 75.61	0
		MAN E3284	55.505	16.199	52.355	1.00 77.19	č
ATOM 15643	C3						
ATOM 15645	03	MAN E3284	55.980	15.970	53.712	1.00 78.27	0
ATOM 15646	C4	MAN E3284	54.050	15.999	51.891	1.00 74.76	C
ATOM 15648	04	MAN E3284	53.363	14.913	52.491	1.00 74.26	0
ATOM 15650	C5	MAN E3284	54.093	16.166	50.311	1.00 75.13	C
ATOM 15652	C6	MAN E3284	52.766	16.286	49.596	1.00 71.00	С
ATOM 15655	06	MAN E3284	51.789	16.197	50.591	1.00 67.75	0
ATOM 15656	05	MAN E3284	54.772	17.312	49.795	1.00 71.66	0
ATOM 15657	C1	MAN E3287	56.557	14.726	54.281	1.00 82.57	C
ATOM 15659	C2	MAN E3287	57.357	13.797	53.289	1.00 86.35	С
ATOM 15661	02	MAN E3287	58.723	13.344	53.449	1.00 90.50	0
ATOM 15662	C3	MAN E3287	56.672	12.482	52.944	1.00 89.09	Ċ
				11.558	52.507	1.00 90.57	0
ATOM 15664	03	MAN E3287	57.659			1.00 90.37	C
ATOM 15666	C4	MAN E3287	55.887	11.911	54.115		
ATOM 15668	04	MAN E3287	55.294	10.689	53.706	1.00 92.89	0
ATOM 15670	C5	MAN E3287	54.863	12.927	54.621	1.00 83.20	C
ATOM 15672	С6	MAN E3287	54.074	12.364	55.791	1.00 82.64	C
ATOM 15675	06	MAN E3287	53.440	11.149	55.398	1.00 86.10	0
ATOM 15677	05	MAN E3287	55.586	14.035	55.127	1.00 82.62	0
ATOM 15678	C1	MAN E3288	59.546	13.176	54.658	1.00 92.52	C
ATOM 15680	C2	MAN E3288	59.349	14.272	55.676	1.00 89.65	C
ATOM 15682	02	MAN E3288	58.271	13.854	56.471	1.00 91.69	0
ATOM 15684	C3	MAN E3288	60,452	14.356	56.660	1.00 90.23	С
ATOM 15686	03	MAN E3288	59.890	15.181	57.619	1.00 85.18	0
ATOM 15688	C4	MAN E3288	60.741	13.016	57.331	1.00 94.39	Č
ATOM 15690	04	MAN E3288	62.025	13.205	57.964	1.00 93.03	Ö
		MAN E3288				1.00 93.03	c
ATOM 15692	C5		60.590	11.833	56.315		C
ATOM 15694	C6	MAN E3288	60.604	10.434	56.978	1.00101.20	
ATOM 15697	06	MAN E3288	59.305	9.870	57.154	1.00102.55	0
ATOM 15699	05	MAN E3288	59.440	12.000	55.444	1.00 94.57	0
ATOM 15700	C1	MAN E3285	52.312	20.696	57.165	1.00 71.22	С
ATOM 15702	C2	MAN E3285	51.852	19.512	58.022	1.00 72.51	С
ATOM 15704	02	MAN E3285	52.078	19.647	59.410	1.00 75.71	0
ATOM 15705	C3	MAN E3285	50.367	19.348	57.867	1.00 68.59	C
ATOM 15707	03	MAN E3285	50.001	18.467	58.884	1.00 72.03	0
ATOM 15709	C4	MAN E3285	49.651	20.659	58.121	1.00 64.77	С
ATOM 15711	04	MAN E3285	48.263	20.485	57.943	1.00 65.10	0
ATOM 15711 ATOM 15713	C5	MAN E3285	50.145	21.664	57.134	1.00 62.44	č
				22.972	57.332	1.00 57.64	Ċ
ATOM 15715	C6	MAN E3285	49.441				0
ATOM 15718	06	MAN E3285	49.509	23.586	56.085	1.00 54.72	
ATOM 15720	05	MAN E3285	51.537	21.875	57.328	1.00 68.41	0
ATOM 15721	C1	MAN E3286	52.667	20.955	59.763	1.00 77.35	C
ATOM 15723	C2	MAN E3286	52.629	21.164	61.302	1.00 76.62	C
ATOM 15725	02	MAN E3286	52.926	19.916	61.946	1.00 81.48	0
ATOM 15727	C3	MAN E3286	53.567	22.287	61.783	1.00 73.66	С

ATOM 1	15729	03	MAN	E3286	54.478	21.668	62.617	1.00	73.03	0
ATOM 1		C4		E3286	54.473	23.006	60.754		75.14	Ċ
ATOM 1		04		E3286	54.449	24.416	61.021	1.00	71.56	0
ATOM 1		C5		E3286	54.173	22.670	59.260	1.00	76.43	С
ATOM 1		C6	MAN	E3286	55.208	23.365	58.290	1.00	76.78	C
ATOM 1	15740	06	MAN	E3286	55.328	23.003	56.888	1.00	76.61	0
ATOM I		05	MAN	E3286	54.002	21.227	59.234	1.00	77.45	0
ATOM 1	15743	C1	MAN	E3289	50.258	15.461	49.783	1.00	75.63	С
ATOM 3	15745	C2	MAN	E3289	50.034	14.267	48.872	1.00	75.77	C
ATOM 1	15747	02	MAN	E3289	48.660	14.201	48.764	1.00	72.18	0
ATOM 1	15749	C3	NAM	E3289	50.526	14.452	47.437		78.29	С
ATOM 1		03		E3289	49.933	13.510	46.572		79.15	0
ATOM 3		C4		E3289	50.081	15.789	46.882		77.40	C
ATOM 1		04		E3289	50.521	15.836	45.541		77.75	0
ATOM 1		C5		E3289	50.659	16.920	47.772		76.35	С
ATOM 1		C6		E3289	50.230	18.330	47.313		71.38	C 0
ATOM 1		06		E3289	51.375	19.128	47.137		68.05 76.70	0
ATOM 3		05		E3289	50.198 38.544	16.752 32.137	49.136 31.287		73.74	C
ATOM :		C1 C2		E3371 E3371	39.910	31.524	30.912		72.50	C
ATOM :		N2		E3371	40.864	31.546	32.013		71.87	N
ATOM :		C7		E3371	41.239	30.472	32.757		70.84	C
ATOM 1		07		E3371	40.476	29.555	33.102		70.45	0
ATOM :		C8		E3371	42.672	30.426	33.238		70.39	C
ATOM 3		C3		E3371	40.656	32.193	29.783		75.42	С
ATOM :		03		E3371	41.791	31.359	29.440		77.30	0
ATOM :		C4		E3371	39.730	32.463	28.602	1.00	76.98	С
ATOM 3		04	NAG	E3371	40.419	33.182	27.568	1.00	80.73	0
ATOM :	15785	C5	NAG	E3371	38.541	33.295	29.072	1.00	77.51	С
ATOM 3	15787	C6	NAG	E3371	37.559	33.426	27.908	1.00	79.31	С
ATOM :	15790	06	NAG	E3371	36.679	34.496	28.177		80.38	0
ATOM :	15792	05		E3371	37.813	32.803	30.226		77.42	0
ATOM 3		C1		E3372	41.583	32.516	26.923		81.06	C
ATOM .		C2		E3372	42.328	33.443	25.948		82.94	С
ATOM :		N2		E3372	41.740	34.767	25.838		82.97	N
ATOM .		C7		E3372	42.233	35.902	26.335		82.90	С
ATOM :		07		E3372	41.520	36.914	26.248 26.991		82.64 82.07	0 C
ATOM :		C8 C3		E3372 E3372	43.607 42.419	35.961 32.829	24.547		85.35	С
ATOM :		03		E3372	43.207	33.591	23.635		87.85	0
ATOM :		C4		E3372	43.054	31.472	24.780		84.91	C
ATOM :		04		E3372	43.723	30.920	23.637		91.00	0
ATOM :		C5		E3372	41.959	30.586	25.314		82.11	С
ATOM :		C6		E3372	42.432	29.260	25.924		80.32	С
ATOM :		06		E3372	43.839	29.217	26.026	1.00	82.02	0
ATOM :	15819	05	NAG	E3372	41.168	31.317	26.251	1.00	83.28	0
ATOM :	15820	C1	MAN	E3373	43.193	31.163	22.297		90.26	С
ATOM :	15822	C2	MAN	E3373	43.289	29.790	21.572		89.29	С
ATOM :	15824	02	MAN	E3373	42.106	29.541	20.822		88.30	0
MOTA :		C3		E3373	44.594	29.551	20.798		90.57	С
ATOM :		03		E3373	44.458	28.528	19.795		92.13	0
ATOM :		C4		E3373	45.145	30.855	20.206		93.50	C
ATOM :		04		E3373	46.449	30.566	19.675		97.00	0
ATOM :		C5		E3373	45.156	32.027	21.232		91.21	C
ATOM :		C6		E3373	45.845	33.348	20.765 19.709		92.87 91.50	C 0
ATOM :		06		E3373	45.180	34.027	21.657		90.06	0
ATOM :		05 C1		E3373 E3374	43.831 45.299	32.276 27.327	19.975		91.45	C
ATOM :		C2		E3374	43.299	25.926	19.573		90.43	С
ATOM :		02		E3374	43.307	25.675	19.923		85.56	0
ATOM :		C3		E3374	44.958	25.484	18.106		93.36	C
ATOM :		03		E3374	43.909	25.879	17.264		92.46	0
ATOM :		C4		E3374	46.346	25.944	17.578		95.44	C
ATOM :		04		E3374	47.038	24.929	16.892		96.98	0
ATOM :		C5		E3374	47.209	26.363	18.774		94.63	С
ATOM :		C6		E3374	48.726	26.471	18.535		95.51	С
ATOM :		06		E3374	49.041	26.392	17.176		99.02	0
ATOM :		05	MAN	E3374	46.576	27.526	19.340	1.00	94.07	0

ATOM 15863	C1	NAG E3891	45.808	53.754	43.706	1.00 74.28	C
ATOM 15866	C2	NAG E3891	45.380	54.293	42.335	1.00 76.79	С
ATOM 15868	N2	NAG E3891	43.931	54.439	42.244	1.00 77.53	N
ATOM 15870	C7	NAG E3891	43.082	53.652	41.542	1.00 79.46	C
ATOM 15871	07	NAG E3891	42.117	54.113	40.922	1.00 80.77	0
ATOM 15872	C8	NAG E3891	43.269	52.147	41.487	1.00 77.83	C
ATOM 15876	C3	NAG E3891	45.958	53.518	41.171	1.00 79.74	C
ATOM 15878	03	NAG E3891	45.933	54.287	39.941	1.00 85.15	0
ATOM 15880	C4	NAG E3891	47.366	53.013	41.512	1.00 79.56	C
ATOM 15882	04	NAG E3891	47.766	52.108	40.515	1.00 81.56	0
ATOM 15884	C5	NAG E3891	47.547	52.327	42.862	1.00 74.77	C
ATOM 15886	C6	NAG E3891	49.038	51.935	43.162	1.00 76.89	C
ATOM 15889	06	NAG E3891	50.128	52.559	42.436	1.00 78.59	0
ATOM 15891	05	NAG E3891	47.051	53.133	43.897	1.00 71.16	0
ATOM 15892	C1	NAG E3892	49.560	50.560	39.673	1.00 85.54	C
ATOM 15895	C2	NAG E3892	51.079	50.372	39.365	1.00 87.01	C
ATOM 15897	N2	NAG E3892	51.830	49.743	40.498	1.00 86.01	N
ATOM 15899	C7	NAG E3892	53.058	50.168	41.010	1.00 88.55 1.00 92.23	C 0
ATOM 15900	07	NAG E3892	54.106	50.400 50.394	40.348 42.509	1.00 92.23	C
ATOM 15901	C8	NAG E3892 NAG E3892	53.194 51.752	51.651	38.791	1.00 89.93	Ċ
ATOM 15905 ATOM 15907	C3 O3	NAG E3892	53.012	51.322	38.204	1.00 93.75	Ö
ATOM 15907 ATOM 15909	C4	NAG E3892	50.816	52.383	37.790	1.00 92.19	C
ATOM 15909 ATOM 15911	04	NAG E3892	51.469	53.394	36.980	1.00 97.04	Ö
ATOM 15911 ATOM 15913	C5	NAG E3892	49.621	52.861	38.652	1.00 90.09	Č
ATOM 15915	C6	NAG E3892	48.688	53.957	38.073	1.00 91.72	Ċ
ATOM 15918	06	NAG E3892	49.232	54.724	36.977	1.00 93.72	0
ATOM 15920	05	NAG E3892	48.877	51.689	39.028	1.00 88.11	0
ATOM 15921	C1	NAG E4201	42.244	56.852	52.671	1.00 63.81	C
ATOM 15924	C2	NAG E4201	43.345	57.207	51.711	1.00 65.17	C
ATOM 15926	N2	NAG E4201	44.591	56.697	52.209	1.00 64.00	N
ATOM 15928	C7	NAG E4201	45.518	56.163	51.423	1.00 64.41	C
ATOM 15929	07	NAG E4201	45.413	56.030	50.212	1.00 65.04	0
ATOM 15930	C8	NAG E4201	46.795	55.727	52.065	1.00 64.60	C
ATOM 15934	C3	NAG E4201	43.381	58.699	51.617	1.00 68.66	C
ATOM 15936	03	NAG E4201	44.262	58.910	50.571	1.00 74.46	0
ATOM 15938	C4	NAG E4201	42.044	59.335	51.220	1.00 71.76	C
ATOM 15940	04	NAG E4201	41.985	60.760	51.475	1.00 76.53	O C
ATOM 15941	C5	NAG E4201	40.915	58.632	51.980 51.256	1.00 68.94 1.00 70.71	C
ATOM 15943 ATOM 15946	C6 06	NAG E4201 NAG E4201	39.614 38.706	58.830 58.151	52.076	1.00 70.71	O
ATOM 15948	05	NAG E4201 NAG E4201	41.037	57.234	52.120	1.00 65.06	0
ATOM 15949	C1	NAG E4201	42.056	61.718	50.372	1.00 81.14	C
ATOM 15945	C2	NAG E4202	41.295	63.019	50.736	1.00 83.23	Ċ
ATOM 15953	N2	NAG E4202	40.158	62.736	51.611	1.00 81.14	N
ATOM 15955	C7	NAG E4202	40.195	62.977	52.938	1.00 81.55	C
ATOM 15956	07	NAG E4202	40.397	62.106	53.790	1.00 75.71	0
ATOM 15957	C8	NAG E4202	39.997	64.413	53.403	1.00 84.96	C
ATOM 15961	C3	NAG E4202	40.871	63.865	49.497	1.00 87.52	C
ATOM 15963	03	NAG E4202	40.860	65.241	49.801	1.00 91.09	0
ATOM 15965	C4	NAG E4202	41.751	63.571	48.257	1.00 88.70	C
ATOM 15967	04	NAG E4202	41.562	64.296	46.993	1.00 92.75	0
ATOM 15968	C5	NAG E4202	41.445	62.067	48.006	1.00 86.08	C
ATOM 15970	C6	NAG E4202	42.113	61.443	46.760	1.00 86.81	C
ATOM 15973	06	NAG E4202	43.309	60.781	47.074	1.00 86.56	0
ATOM 15975	05	NAG E4202	41.555	61.202	49.146	1.00 82.49	0
ATOM 15976	C1	MAN E4203	41.597	65.753	46.758	1.00 96.52	C
ATOM 15978	C2	MAN E4203	42.878	66.374	46.086 45.284	1.00 98.52 1.00 94.95	C 0
ATOM 15980	02	MAN E4203	43.726	65.559		1.00 94.95	c
ATOM 15982	C3	MAN E4203	42.475	67.691 67.581	45.329 43.900	1.00104.12	0
ATOM 15984	03	MAN E4203 MAN E4203	42.359 41.185	68.311	45.942	1.00105.60	C
ATOM 15986 ATOM 15988	C4 O4	MAN E4203 MAN E4203	41.185	69.698	45.630	1.00103.60	0
ATOM 15988 ATOM 15990	C5	MAN E4203	41.097	68.015	47.482	1.00103.12	Č
ATOM 15990 ATOM 15992	C6	MAN E4203	39.839	68.676	48.110	1.00102.30	c
ATOM 15995	06	MAN E4203	39.443	67.969	49.283	1.00100.82	0
ATOM 15995 ATOM 15997	05	MAN E4203	41.313	66.623	47.864	1.00 97.25	Ö
ATOM 15998	C1	NAG E5041	12.333	62.275	39.325	1.00137.11	Ċ
111011 10000	01	1,110 110011	12.000	02.2.0			-

ATOM	16001	C2	NAG	E5041	12.986	63.604	39.616	1.00138.53	C
	16003	N2	NAG	E5041	13.364	63.660	41.044	1.00136.10	N
	16005	C7	NAG	E5041	14.433	63.080	41.645	1.00128.39	C
	16006	07	NAG	E5041	14.366	62.041	42.320	1.00122.17	0
	16007	C8		E5041	15.723	63.845	41.521	1.00127.26	C
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	16019	C5	NAG	E5041	10.130	63.058	39.106	1.00144.50	C
ATOM	16021	C6	NAG	E5041	8.913	62.764	38.230	1.00147.36	C
	16024	06	NAG	E5041	7.864	63.649	38.544	1.00153.22	0
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MOTA	16084	05	NAG	E5791	7.861	19.573	-5.156	1.00161.26	0
END									

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What is claimed:

1. A crystal of a receptor-antibody complex comprising a receptor-antibody complex of an epidermal growth factor receptor (EGFR) extracellular domain and cetuximab Fab, wherein the crystal has a resolution determined by X-ray crystallography of better than about 5.0 Angstroms.

- 2. The crystal of Claim 1, wherein the crystal has a resolution determined by X-ray crystallography of better than about 4.0 Angstroms.
- 3. The crystal of Claim 2, wherein the crystal has a resolution determined by X-ray crystallography of better than about 3.0 Angstroms.
- 4. The crystal of Claim 1, wherein the crystal belongs to space group P2₁ and has unit cell dimensions a = 77.8 Å, b = 70.9 Å, c = 147.1 Å, and $\beta = 102.5^{\circ}$.
 - 5. The crystal of Claim 1, having atomic coordinates provided in Table 2.
- 6. A method for preparing a crystal of a complex of an epidermal growth factor receptor (EGFR) extracellular domain and cetuximab Fab comprising preparing a solution containing the extracellular domain of EGFR and cetuximab Fab fragment, and growing the crystal.
 - 7. The method of Claim 6, wherein the pH of the solution is about 6.0 to about 8.0.
- 8. A method of identifying a mimetic of cetuximab comprising comparing a three-dimensional structure of the mimetic with a three-dimensional structure determined for the complex of Claim 1.
- 9. The method of Claim 8, wherein the three dimensional structure of the mimetic is compared with at least a subset of the coordinates provided in Table 2.
- 10. The method of Claim 8, wherein identifying a mimetic is carried out by comparing the three-dimensional structure of the mimetic against the coordinates of at least one EGFR amino acid bound by cetuximab Fab.
- 11. The method of Claim 9, wherein the EGFR amino acid is selected from the group consisting of Gln 384, Gln 408, Ser 418, Ser 440, Lys 465, Ser 468, and Asn 469.
- 12. The method of Claim 8, wherein the locations of atoms of the mimetic that contact EGFR correspond to atoms of cetuximab that contact EGFR.

13. The method of Claim 8, wherein identifying a mimetic comprises comparing a three dimensional structure of a mimetic with the atomic coordinates of a region of EGFR selected from the group consisting of about amino acid residue 350 to about amino acid residue 354, about amino acid residue 380 to about amino acid residue 385, about amino acid residue 405 to about amino acid residue 420, about amino acid residue 435 to about amino acid residue 475 and combinations thereof.

- 14. The method of Claim 8, wherein the mimetic is a small molecule.
- 15. The method of Claim 8, wherein the mimetic is a peptide.
- 16. The method of Claim [0014], wherein the peptide is an antibody or a fragment thereof.
- 17. The method of Claim 8, wherein the method is carried out with use of a computer.
- 18. The method of Claim 8, further comprising synthesizing the mimetic and assaying its binding or physiological activity.
- 19. The method of Claim [0017], wherein the mimetic binds to EGFR with similar affinity as cetuximab Fab.
- 20. The method of Claim [0017], wherein the mimetic inhibits dimerization of EGFR expressed by a cell.
- 21. The method of Claim [0017], wherein the mimetic inhibits tyrosine kinase activity of the receptor.
- 22. The method of Claim [0017], wherein the mimetic blocks binding of EGF to EGFR.
 - 23. A method for identifying a mimetic of cetuximab, comprising:
 - (a) introducing *in silico* substitutions in at least a single CDR region of cetuximab to obtain a pool of variants; and
 - (b) using a computer and at least a subset of the EGFR coordinates provided in Table 2 to select a variant with improved EGFR binding characteristics.
- 24. The method of Claim 23, further comprising determining the biological activity of the mimetic.

25. The method of Claim 23, wherein at most a single substitution is made in each CDR.

- 26. The method of Claim 23, wherein substitutions are made solely in a CDR3 region.
- 27. A computer-assisted method for identifying a potential antagonist mimetic that binds the extracellular domain of EGFR comprising a processor, a data storage system, an input device, and an output device, comprising:
 - (a) inputting into the programmed computer through said input device data comprising the three-dimensional coordinates of a subset of the atoms of EGFR as set out in Table 2;
 - (a) providing a database of chemical and peptide structures stored in said computer data storage system;
 - (b) selecting from said database, using computer methods, structures having a portion that is structurally similar to said criteria data set; and
 - (b) outputting to said output device the selected chemical structures having a portion similar to said criteria data set.
- 28. A machine-readable medium having stored thereon a plurality of executable instructions to perform a method to identify a mimetic of cetuximab using a crystal of a receptor-antibody complex comprising a receptor-antibody complex of an epidermal growth factor receptor (EGFR) extracellular domain and cetuximab Fab, the method comprising:

comparing a three-dimensional structure of a mimetic with a three dimensional structure an epidermal growth factor receptor (EGFR) extracellular domain and cetuximab Fab having an X-ray crystallography resolution of better than about 5.0 Angstroms.

- 29. The machine-readable medium of Claim [0019], wherein the EGFR coordinates comprise at least a subset of the atomic coordinates of Table 2.
- 30. The machine-readable medium of Claim [0019], wherein the three-dimensional structure of the mimetic is compared with at least a subset of the atomic coordinates of Table 2.
- 31. The machine-readable medium of Claim [0019], wherein identifying a mimetic comprises comparing the three-dimensional structure of a mimetic with a three-dimensional structure of at least one EGFR amino acid bound by cetuximab Fab.
- 32. The machine-readable medium of Claim [0019], wherein identifying a mimetic comprises comparing a three dimensional structure of a mimetic with the atomic coordinates of a

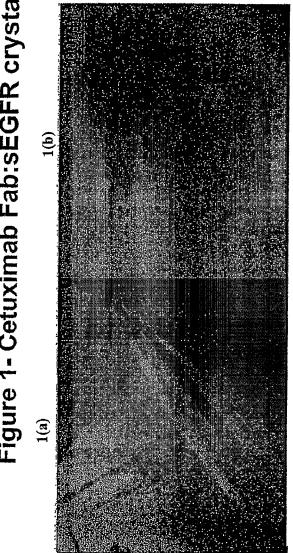
region of EGFR selected from the group consisting of about amino acid residue 350 to about amino acid residue 354, about amino acid residue 380 to about amino acid residue 385, about amino acid residue 405 to about amino acid residue 420, about amino acid residue 435 to about amino acid residue 475 and combinations thereof.

- 33. A machine-readable medium having stored thereon a plurality of executable instructions to perform a method for identifying a mimetic of cetuximab, the method comprising:
 - (a) introducing *in silico* substitutions in at least a single CDR region of cetuximab to obtain a pool of variants; and
 - (b) using a computer and at least a subset of the EGFR coordinates provided in Table 2 to select a variant with improved EGFR binding characteristics.
 - 34. A cetuximab mimetic identified by the method of any one of Claims 8 to 27.
- 35. A method of inhibiting EGFR comprising administering a mimetic of Claim [0022].
- 36. A method of inhibiting tumor growth in a mammal comprising administering a therapeutically effective amount of a cetuximab mimetic of Claim [0022].
 - 37. The method of Claim 36, wherein the tumor expresses EGFR.
 - 38. The method of Claim 36, wherein the tumor overexpresses EGFR.
 - 39. The method of Claim 36, wherein the tumor is a primary tumor.
 - 40. The method of Claim 36, wherein the tumor is a metastatic tumor.
 - 41. The method of Claim 36, wherein the tumor is a refractory tumor.
 - 42. The method of Claim 36, wherein the tumor is a vascularized tumor.
- 43. The method of Claim 36, wherein the tumor is selected from the group consisting of a colorectal tumor, a head and neck tumor, a pancreatic tumor, a lung tumor, a breast tumor, a renal cell carcinoma, and a glioblastoma.
- 44. The method of Claim 36, wherein the cetuximab mimetic is administered in combination with an anti-neoplastic agent.
- 45. The method of Claim 44, wherein the antineoplastic agent is a chemotherapeutic agent.

46. The method of Claim 44, wherein the antineoplastic agent is irinotecan (CPT-11).

- 47. The method of Claim 44, wherein the antineoplastic agent is radiation.
- 48. The method of Claim 36, wherein the cetuximab mimetic is administered in combination with an EGFR antagonist.
- 49. The method of Claim 48, wherein the EGFR antagonist is an intracellular EGFR antagonist.
- 50. The method of Claim 36, wherein the cetuximab mimetic is administered in combination with a VEGFR antagonist.
- 51. The method of Claim 36, wherein the cetuximab mimetic is administered in combination with an insulin like growth factor receptor (IGFR) antagonist.
- 52. A method of treating a hyperproliferative disease comprising administering a therapeutically effective amount of a cetuximab mimetic of Claim [0022].
 - 53. The method of Claim 52, wherein the hyperproliferative disease is psoriasis.
- 54. The method of Claim 52, wherein the cetuximab mimetic is administered in combination with a topical or systemic agent for psoriasis.
- 55. The method of Claim 52, wherein the cetuximab mimetic is administered in combination with a corticosteroid.
- 56. The method of Claim 52, wherein the cetuximab mimetic is administered in combination with a retinoid.

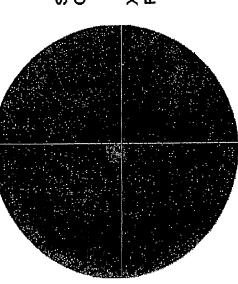
Figure 1- Cetuximab Fab:sEGFR crystals



Cetuximab Fab:sEGFR

Crystallization condition 15% PEG 3350, 250 mM Ammonium Sulfate, 100 mM Imidazole, pH 7.5.

FIGURE 2- Cetuximab Fab:sEGFR complex



Cell dimensions Space group

CHESS A1 2.8Å Resolution limit X-ray source

a=77.8Å b=70.9Åc=147.1Åβ= 102.5 One Fab:sEGFR complex in the a.u.

Native Data Set From CHESS A1 to 2.8 Å resolution Observed/unique 141,255/38,177 Completeness 99 % (90.6 %)

Rsym <I/a

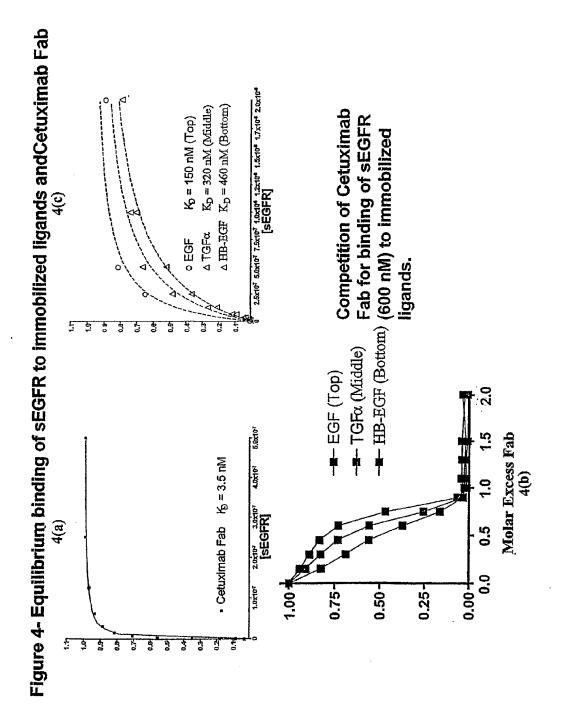
Phasing

Molecular Replacement using tethered sEGFR, and coordinates of Fab.

R_{free} = 27 % 0.028 Å 1.13° R_{factor} = 22 % Rmsd bonds lengths Rmsd bond angles

Current Refinement (CNS)





Sequence listing.TXT SEQUENCE LISTING

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Sequence listing.TXT

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Page 4

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